

Concert *Collection*
WA/Hmm/cm/sal/21/340/1

Phone : Gerrard 1824.

Sale Nos. 13,232—13,233

Sale to commence at **12.30** o'clock each day.

THURSDAY and FRIDAY, DECEMBER 9th and 10th, 1920.

A CATALOGUE OF

Miscellaneous Property,

INCLUDING

Two 5-inch Ornamental Lathes by Holtzapffel ;
a variety of Chucks and accessories ; Circular Saw ;
Grinding Machine ; quantity of Tools and Drills ;

A LARGE IVORY TUSK ;
Several small Tusks ;

AND

QUANTITY OF HARDWOOD FOR TURNING.

The third portion of the

Collection of Microscopes and Accessories

formed by the late SIR FRANK CRISP, Bart.,
including many fine Microscopes, Spectroscopes, Polariscopes, etc.

Photographic Apparatus and Cameras,

with LENSES by Goerz, Cooke, Zeiss, Ross, etc ;

Telescopes, Lanterns and Slides, Prismatic Binoculars, Typewriters,
Gramophones, Records, Motor Cycle, etc.

MR. J. C. STEVENS

WILL SELL BY AUCTION AT HIS ROOMS,

No. 38, King Street, Covent Garden, W.C. 2,

On **THURSDAY and FRIDAY, December 9th and 10th, 1920,**

At **12.30** o'clock each day.

On view the day prior, from 12.30 till 5.30 o'clock, and Mornings of Sale
from 9.30 till 12, and Catalogues had of Mr. J. C. STEVENS, 38 King
Street, Covent Garden, W.C. 2.

Telegraphic Address : **AUKS, RAND, LONDON.**

Established 1760.

RIDDLE, SMITH & DUFFUS, Windsor House, Kingsway, W.C. 2, and Forest Hill, S.E. 23.

CONDITIONS OF SALE.

FIRST.—The highest bidder to be the buyer, and if any dispute arise between two or more bidders the lot so disputed shall be immediately put up again and re-sold. The auctioneer reserves to himself the right to refuse any bid, also to make any alteration in the catalogue.

SECOND.—No person to advance less than one shilling; above £2 two shillings and sixpence, and so on in proportion.

THIRD.—The purchasers are to give in their names and places of abode, and, if required, to pay down a deposit of five shillings in the pound in part payment of the purchase-money, in default of which the lot or lots so purchased to be put up again and re-sold at any convenient opportunity during the sale or otherwise.

FOURTH.—The lots are to be taken away and paid for, with all faults and errors of description, at the buyer's expense and risk, on the day immediately following sale. The auctioneer not being responsible for the correct description, genuineness or authenticity of, or any fault or defect in any lot, and making no warranty whatever.

Lastly.—Upon failure of complying with the above conditions, the money deposited in part payment shall be forfeited to the vendors, the lots remaining uncleared shall be re-sold by public or private sale, and the deficiency (if any) attending such re-sale, together with all incidental expenses and charges, shall be made good by the defaulters at this sale.

* * * Pictures offered for sale are attributed to the artists named, but no guarantee as to their genuineness is given or implied.

NO LOTS WILL BE TRANSFERRED.

The Clerk of the Sale has authority to refuse Cheques

A CHARGE FOR WAREHOUSING WILL BE MADE ON
LOTS NOT CLEARED PROMPTLY.

Telephone :—

GERRARD, 1824

Telegrams :—

AUKS, RAND.

A CATALOGUE

FIRST DAY'S SALE

Thursday, December 9th, 1920.

AT 12.30 O'CLOCK.

ON VIEW:

Wednesday, 12.30 p.m. to 5.30 p.m.

Thursday, 9.30 a.m. to 12 noon.

MISCELLANIES.

LOT

1	A new canvas side cover
2	A case of insulators, and a hamper of baskets
3	An engine cylinder
4	A sheep-shearing machine in parts, a copper container, and a gas heater
5	Spong's knife machine, for 2 knives and carver, new condition
6	Piano stool, leather covered, square thread, new
7	An overcoat, by Aquascutum, Regent St., and a pair of brown leather leggings
8	Good electric mole coney coat, American dye
9	Good electric French coney coat, long hair mole coney collar and cuffs
10	Ditto with dark collar and flounce

11 Two dozen $\frac{3}{4}$ -in. black handle hollow-ground Sheffield make razors
 12 Lady's rosewood dressing case
 13 An 18-inch decorated Imari plate
 14 A Sheffield-plated 3-bottle liqueur stand, and a 2-bottle ditto
 15 Silver Waltham demi-hunter, silver wristlet, and 2 gun-metal watches
 16 A gentleman's gold hunter, in good working order
 17 Twelve small Baxter prints, and one Le Blond print
 18 Gold bracelet watch
 19 Gentleman's gold signet ring
 20 Gold chain ring
 21 Well-made coil and spring winder
 22 Lady's silver wrist watch, and another
 23 Electro-plated table lamp
 24 Brass table lamp
 25 Steljes' recorder, new condition
 26 Lady's escritoire, having finely painted Sèvres panels, and massive ormolu mounts
 27 An open bookcase
 28 Circular mahogany table on tripod feet

BOOKS, &c.

29 The Works of Samuel Johnson, LL.D., leather bound, 11 vols.
 30 Byron's Life and Letters, 6 vols. ; Byron's Poetical Works, 10 vols.
 31 Wordsworth Poetical Works, 6 vols. ; Atlas of Principal Cities of the World, Astronomical and Geographical Diagrams, and Morant's Geological Chart
 32 Hallam's Middle Ages, History of England, etc., 13 ; History of the War, etc., 9
 33 Twenty-four vols. various
 34 Twenty-four vols. various
 35 Twenty-four vols. various
 36 Poems, etc., 12
 37 Memoirs of Egypt Exploration ; Paris Picturesque ; History of York Cathedral ; Swiss Pictures, and 13 others (17)

38 Framed picture—Balaclava, and 2 others
 39 Framed engraving—Meeting of Wellington and Blucher
 40 Old engraving, framed—Blind Fiddler; painting in oils, crayon drawing, and another
 41 Charming water-colour drawing, gilt frame—York Minster
 42 Old painting in oils—Goats

GRAMOPHONES, RECORDS, &c.

43 A cabinet Zonophone with sound box, tone arm, and large horn, good motor
 44 A dozen gramophone records including 2 Tetrazzini, 1 Melba and some French operas
 45 Thirty assorted gramophone records
 46 Twenty-eight ditto
 47 Two dressing bags (one containing a number of silver-mounted fittings)
 48 A gentleman's dressing case with fittings, and 4 small writing pads
 49 One dozen Marathon records
 50 Sixteen Zonophone records.
 51 Sixteen various
 52 Table gramophone, double spring
 53 New oak cabinet gramophone, complete
 54 Hornless oak cabinet gramophone, 6-in. tone-arm, complete, new
 55 Hornless oak cabinet gramophone, 5-in. tone-arm, complete, new
 56 Two doz. gramophone records
 57 Ditto
 58 A walnut penny-slot musical Polyphone, 3ft., and tunes, in perfect order (originally cost £20)
 59 Ditto
 60 Ditto
 61 Ditto
 62 Twelve rolls 65-note player-piano music
 63 Ditto, ditto

64 A very fine mahogany pedestal gramophone, with record cupboard, Chippendale style, fitted with heavy double-spring worm-driven motor, and fine sound box

65 Massive Heppelwhite style pedestal gramophone, with record cupboard, fitted with heavy double spring worm-driven motor and sound box

66 Mahogany pedestal gramophone, with record drawer and cupboard, fitted with double spring worm-driven motor and fine sound box

67 Mahogany dwarf pedestal gramophone with American double spring worm-driven motor and fine sound box

68 Solid mahogany pedestal gramophone with venetia front, fitted with double spring worm-driven motor

69 Twelve 12-in. gramophone records in album, H.M.V., Columbia, Celebrity, etc., condition as new

70 One dozen 12-in. gramophone records

71 One dozen 10-in. ditto

72 One dozen 10-in. ditto

73 One dozen 10-in. ditto

74 One dozen 10-in. ditto

WINES AND CIGARS.

75 Twenty-five cigars, La Flor de Villa Rica

76 Twenty-five ditto

77 Twenty-five ditto

78 Seventeen cigars, H. Upmann, Habana ; 3 ditto, John Alvarez ditto, and casket ; and 43 Partagas, Habana

79 Thirty-two cigars, Punch De Valley, Habana ; 9 ditto, Villar Villar, Habana ; 18 ditto, Henry Clay, Habana

80 Eighty cigars, Villar Villar, Habana

81 Fifty ditto, La Carona, Habana

82 Fifty cigars, Romeo y Julietta (size Romeo, No. 1), boxes of 25

83 Ditto

84 Ditto

85	Fifty cigars, Romeo y Julietta (size Romeo, No. 1), boxes of 25
86	Ditto
87	Ditto
88	Ditto
89	Ditto
90	One dozen bottles of St. Estephe, 1916 vintage
91	Ditto
92	Ditto
93	One dozen Red Lisbon wine, port style
94	Ditto
95	Ditto
96	Ditto
97	Ditto
98	One dozen Red Mistella wine
99	Ditto
100	Ditto
101	Ditto
102	Ditto
103	Sparkling Muscatel, Golden Coronet, a case of 12 bottles
104	Ditto
105	Ditto, a case of 24 half-bottles
106	Sparkling Muscatel (ruby), Golden Coronet, a case of 12 bottles
107	Ditto
108	Ditto, a case of 24 half-bottles

LATHES, TOOLS, &c.

To be sold about 2 p.m.

109	A large self-centering chuck, by Holtz-apffel
110	A large 6-in. chuck, independent jaws
111	A small self-centering chuck, 1 screw chuck, 1 polishing disc, and various accessories, 14 pieces in all, and a small chest of lathe tools
112	A 12-in. independent chuck
113	Twelve lathe tools, $\frac{3}{8}$ -in. square
114	Watch jewelling tool, in case
115	Watchmaker's mandrel

116 *Drummond's* 3½-in. saw table, new, with spindle, and two saws

117 Scroll chuck, 2-in., and 6-in. circular saw on arbor

118 Working model of hydraulic press

119 Set of *Whitworth* stocks and dies, ½in., ¼in. and ⅜in., new condition

120 Ornamental slide rest, by *Evans*

121 Divided chuck, by *Evans*

122 An 8½-in. *Horton* S.C. chuck, key, one set jaws

123 A 5-in. *Almond* S.C. chuck, key, one set jaws

124 *Gronkvist* chuck for morse taper shank

125 Manchester straight line tapping chuck with Morse taper shank

126 Ditto

127 *Motor cycle*, 3½-h.p., 3 speed gear, thoroughly overhauled and replated and enamelled and new parts, and new heavy Dunlop tyres and tubes

131 *Brown & Sharpe* 2-in. micrometer, and *Starrett* 2-in. to 7½-in. internal micrometer

132 An aluminium slide rule, in case

133 *Brown & Sharpe* cast steel standard rule, in mahogany case (24-in. long), markings, 1/64ths one edge, .01-in. other edge, and also a dot device for marking down to .001-in.

134 A 6-in. rule marking micrometer, by *W. Madsen*, marks off from both ends leading screw 1/40-in., controlled by double-handled disc showing .001 in a space of ¼in., the machine therefore can approximate to .0001, two screw vices and faces are adjustable to micrometers and has four distance pieces and back stop

135 *Starrett* micrometer, 1-in. Whitworth Standard, 8 to 13P. graduated, .000in. to 1-in. for screws, and 2 adjusting wrenches, all in wood box

136 *J. T. Slocomb*, 1-in. to 2-in. micrometer,
 1·000 to 2·000 with adjusting wrench, in
 cardboard box

137 *J. T. Slocomb*, ·000-in. to 1-in. micrometer
 with adjusting wrench, in cardboard
 box, and an Imperial standard wire
 gauge, double disc type

138 A 4-draw pocket telescope, an ivory scale
 rule, and a Sikes's hydrometer

139 A sliding vernier micrometer by *Trough-
ton & Simms*, to read up to 14ins. inside
 and 13ins. outside, by 1/400th inch, in
 hardwood case

140 Double spirit level, and steel straight
 edge, new

141 A large *Stanley* plane

142 Small vice, watchmaker's mandrel, and
 other tools

143 Mahogany case with taps and dies

144 Two 0- $\frac{1}{2}$ -in. *Goodell* pattern drill chucks,
 new

145 Two ditto

146 One *Goodell* pattern drill chuck, and gross
 8-in. hack-saw blades

147 Two gross 8-in. hack-saw blades

148 Two gross 10-in. *Star* hack-saw blades

149 A large model engine, *Black Prince*, with
 brass boiler, complete with tender (A.F.)

151 A 5-in. centre lathe by *Holtzapffel*, with
 iron heads, brass pulley with speed
 grooves, best division plate, adjusting
 index, tangent screw movement, segment
 plate with stops, cylinder poppet head,
 2 centres and flange, rest and 3 tees,
 mounted on a double-framed mahogany
 stand, iron bearings, double bevel wheel,
 crank and treadle, nest of 6 drawers fixed
 under lathe for chucks, etc. ; also boring
 collar, plate and head, overhead motion,
 30 brass chucks, 8 drills, oval chuck and
 ring, compensating index and key, 3
 pairs of double screw chucks, die chuck
 and lathe key, and a large number of
 boxwood chucks

152 A 5-in. ornamental slide rest, cradle, fluting stops, collar, winch handle, straight key and lever fitted with automatic drive for same, fitted for spiral apparatus and curvilinear apparatus

The following six chucks have been used with the above lathe, No. 2130 :—

153 Bennett's die chuck
 154 A gunmetal universal chuck
 155 A spherical chuck
 156 A rectilinear chuck
 157 An eccentric chuck
 158 A spiral chuck, radial arm and bolt, 16 change wheels, 3 arbors, surface spiral and bolt, 2 mitre and 2 round edge wheels, arbor for slide rest, blanks and washers and key
 159 A 5-in. Cushman chuck and key
 160 A 3-in. ditto (no key)
 161 Ditto, with key
 162 A 2-in. ditto and key, with 2 sets of jaws
 163 A guide for slender turning
 164 A ditto
 165 A set of 3 lathe taps, handled in mahogany
 166 Curvilinear apparatus consisting of 2 posts and screws, steel bar, 13 curves, and rubber
 167 A 5-in. centre lathe by Holtzapffel, No. 880, traversing mandrel, tangent screw movement, segment plate and stops, 6 screw guides, and conducting apparatus for same, best division plate, adjusting index, cylinder poppet head, 2 centres and flange, 2 hand-rests and 2 tees, lathe key, oval chuck and ring, 34 brass chucks, 10 brass rings for spring chucks, 12 carpenter's bits fitted to brass chucks, and a large number of boxwood chucks

The following have been used with above lathe :—

168 A spherical chuck
 169 An eccentric chuck
 170 A ditto

171 A spiral chuck, radial arm and bolt, 17
change wheels, 3 arbors, arbor for slide
rest, blanks and washers and key

172 A 5-in. ornamental slide rest, cradle,
fluting stops, collar, winch handle, straight
key and lever

173 *Atkinson's* reciprocator

174 A ditto

175 Four cutter bars

176 A cutter bar and 3 blades

177 Cutter bar for external threads, and 7
blades

178 A ditto for internal threads, and 15 blades

179 A triangular cutter bar, and 25 blades

180 A chisel cutter bar and 1 blade, and a
gauge cutter bar and 2 blades

181 A vertical frame by *Hines*

182 An internal cutting frame

183 A ditto

184 A universal cutting frame

185 A large ditto with 3 pulleys and key

186 A universal cutting frame

187 An eccentric cutting frame and key

188 A ditto

189 A vertical cutting frame, 4 pulleys and
key

190 A ditto and key

191 An internal cutting frame with guide
pulleys

192 Brass centering plate, a brass grinder,
key for counter-sunk heads, 3 keys,
8 cylinder bits and 3 drills, 2 large slide
rest tools, a set square, a set bevel, 1 tap,
1 cylinder bit, and 3 handles, 2 screw
plates and taps

193 A small parallel vice

194 A goniostat in mahogany case, 3 cans of
powder, oil can, 3 laps, and 3 holders for
small cutters

195 Another in mahogany case, 3 laps, and 1
holder for small cutters

196 An instrument for sharpening bead tools,
in mahogany case, 12 cones, and 14 drills

197 A ditto in mahogany case, 7 cones, and 12
drills

198 A lot of miscellaneous cutters and tools
 199 A mahogany engine tool case, containing
 86 small slide rest tools, 98 eccentric
 cutters, 36 universal cutters, a drilling
 instrument and 111 drills, a holder for
 sharpening, and a socket handle
 200 A mahogany case containing 151 slide rest
 tools, and socket handle
 201 A mahogany case containing drilling
 instrument and 102 drills, and a holder
 for sharpening
 202 A mahogany tray containing 90 slide rest
 tools and horizontal cutters
 203 A mahogany tray with drilling instrument
 and 140 drills
 204 A mahogany tray containing 133 eccentric
 cutters
 205 *Holtzapffel's circular saw on mahogany
 stand, 6 saws, quadrant, and key*
 206 *A grinding machine on mahogany frame
 stand, trough and rest, 2 stones, lead
 cap, and buff wheel*
 207 *A large well-seasoned ivory tusk, about
 4ft. long, maximum diameter 4in.*
 208 A part ivory tusk, 12in. long, and 4½in.
 diam.
 209 Six small tusks and parts
 210 Ditto
 211 Eight part ivory tusks
 212 Six small pieces of ivory, and bag of frag-
 ments
 213 A large quantity of hard woods

Experiments made with aeroplane propellers have proved that they are suitable for turning, and very satisfactory results have been obtained by the vendors of the following lots :—

214 Three aeroplane propellers
 215 Ditto
 216 Ditto
 217 Ditto
 218 Ditto

219 One dozen new taps, *special Whitworth*
 220 One dozen ditto, .445, 20 threads
 221 Six ditto
 222 Ten high-speed drills, new, 10 millimetres,
 left-handed
 223 Two sets 5/16-in. *Whitworth* taps, 3 new
 224 Two ditto
 225 Three ditto
 226 Three new slotting cutters, 2½in. by $\frac{1}{8}$ in.
 227 Ditto
 228 Ditto
 229 Six ditto
 230 Six new slotting cutters, 3in. by 5/32-in.
 231 Six ditto
 232 A 4½-in. centre *Relmac* bench lathe, by
 Hatch, fast and loose pulleys, tail-stock,
 slide rest and lead screw, but no change
 wheels
 233 A massive 3-ft. oak bench with very heavy
 fly-wheel and treadle motion, and stepped
 driving pulley
 234 A grinding, polishing and turning lathe,
 2-ft. bed on iron standards, with heavy
 fly-wheels, treadle, tool rest, and emery
 wheels
 235 A Reliance post drill
 236 An engineer's 12-in. protected level, by
 Starrett
 237 Extension trammel and set ball points
 by ditto
 238 A *Lloyd's* register decimal gauge, for mea-
 suring hundredths, etc., with ordinary
 callipers
 239 A pair of Vee blocks and clamp for drilling,
 etc., round rods
 240 Two powerful 6-in. G cramps
 241 A massive bolt cropper (needs nut)
 242 A small blow lamp
 243 A small spirit soldering iron
 244 A *Goodell-Pratt* $\frac{1}{2}$ -in. drill chuck
 245 A new glazier's diamond
 246 A reciprocating hand-drill
 247 A vice for drilling machine use
 248 A tool pad and sundry callipers

249 A new 22-in. beech trying plane, and a ditto jack plane

250 A Union 9-in. iron smoothing plane, a pin vice, a hand vice, and a tap wrench

251 A *Clarke's* expansion bit for wood, expansion drill for iron, a new $\frac{5}{8}$ -in. twist drill, ditto reamer, etc.

252 A 7-in. circular saw, with lathe spindle (arbor)

253 A microscopic metal camera with lens, in case, twelve metal slides, and focusing screen

254 Two Huyghenian eyepieces, x4 and x6

255 A 5-in. Whitton 3-jaw scroll chuck, in good condition

256 A 4½-in. Parkinson quick-release vice, perfect

257 Microphotographic apparatus, consisting of microscope portion fitted with an objective and small condenser, and the camera portion with dark slide fitted thereto

258 One dozen centre drills, size B, new

259 One dozen ditto

260 One dozen ditto

261 One dozen ditto

262 One dozen ditto

263 Two dozen ditto

264 Two dozen ditto

265 One dozen twist drills, new, 9/64

266 One dozen ditto

267 Two dozen ditto

268 Two dozen ditto

269 One dozen twist drills, new, size 35

270 One dozen ditto

271 One dozen ditto

272 One dozen twist drills, new, size C

273 One dozen ditto

274 One dozen ditto

275 One dozen ditto

276 Two dozen ditto

277 Twenty-five metal saws, 2 $\frac{3}{4}$ in. diam. by 1-in. hole

278 Ten "India" and "Aloxite" stones, in teak tray
 279 Thirty reamers, standard, straight and taper, in stand, new
 280 A set of 1-in. *Whitworth* standard taps, in stand
 281 Thirty twist drills and cutters, in stand
 282 Four new milling cutters, 2 to $\frac{1}{4}$ -in., and 2 to $\frac{3}{8}$ -in. diam., and 16 small
 283 Armstrong knurling tool, 3 grades
 284 Two forming tool holders, inside and outside, with tools
 285 Brand new Starrett 4 to 5-in. micrometer
 286 Nine riveter's tools
 287 C.O. generator, new
 288 Ditto
 289 Stanley plane, No. 78
 290 Saw setting vice
 291 Carpenter's bench clamp
 292 Box joiner's tools, plane, set of scrapers, bits, etc.
 293 Box engineer's tools, hand drills, 6 spanners, foot-prints, stones, chisels, etc.
 294 Sixty twist drills, assorted
 295 Box of lathe tools
 296 Box of electrical sundries

297 Stock's patent bioscope lantern
 298 Busch A.G. Rathnow lens
 299 Ditto
 300 "Prince of Wales" acetylene generator and lamp
 301 Manheim slide rule in case
 302 Large 4-pole magnet
 303 A 20-gall. tinned steel petrol tank, fitted with unions
 304 No. 7 Elman's duplicator, nearly new, complete, mahogany case
 305 Twenty 10-in. assorted records
 306 No. 1 Hartford drill chuck, 0 to $\frac{1}{2}$ in., new
 307 A 3-piece electro-plated tea service
 308 Pipe wrench, and 4 builder's trowels
 309 Pair lever cutting pliers, and half-dozen razor strops

310 Pair candlesticks, and 6 egg cups
 311 A 26-in. hand saw, and 24 builder's levels
 312 Pair carriage lamps
 313 Two 28-lb. and one 400-lb. balance
 314 Brace and 6 bits
 315 Motor pump, and N.P. hack saw
 316 Bough pruner, and hack saw
 321 Two large model motors
 322 Large medical coil, in case
 323 One hundred pocket lamp 3½-volt bulbs,
guaranteed perfect
 324 Thirty-six nickel-plated torch cases
 325 Three dead beat volt and amp. meters
 326 Large mechanical train, perfect
 327 Complete clown's costume, never worn
 328 Complete nigger's costume, quite new
 329 Complete pierrette costume, new
 329A Twelve sets of coloured lantern slides
(12 to a set, with readings)
 330 An 8½-in. enlarging condenser, new
 331 Four section telescopic metal tripod, new,
fitted with double springs to each joint
 332 Lilliput roll film camera
 333 A ¼-plate folding camera with double lens,
various speeds working at F/8 with focus
screen, 2 metal dark slides, and antinous
release, new, in perfect order
 334 Twelve ¼-plate metal slides to fit Cameo
camera
 335 Twelve ditto to fit Klito camera
 336 Post-card size film pack adapter, to fit
Klito camera
 337 Twelve pocket lamp accumulators
 338 Full-size optical lantern, complete
 339 Incandescent outfit, tray, fittings, and
inverted burner
 340 Splendid mahogany bodied optical lan-
tern with 4-in. Meniscus condenser, brass
front, 2 doors, rackwork lens and incan-
descent outfit, complete, new, perfect
 341 Twenty-four superior Sheffield safety
razors, fitted with Gillette pattern blades
 342 Superior hornless gramophone, new, with
six double-sided records

343 One hundred guaranteed perfect $2\frac{1}{2}$ -volt metal filament bulbs for pocket lamps and torches

344 Best large lens American torch (real fibre), with new battery, complete

345 Six new pocket lamp accumulators

346 Two motors

347 Three dozen horse-shoe magnets

348 Six dozen. 2-ft. high rods, with aluminium fittings, suitable for lantern tripods, banisters, fencing, shelf supports, etc.

349 Two electric cycle lamps (front and rear)

350 Six post-card size metal dark slides, to fit Klito camera

351 Three perfectly new dead beat combined volt and amp. meters

352 Three Ediswan electric bells, new

353 Two high-grade Sterling Telephone Co.'s bells

354 Three best quality bells of the Efandem Company

355 Very special quality $2\frac{1}{2}$ -in. focus cinema lens, new

356 Ditto, 3-in. ditto

357 Ditto $3\frac{1}{2}$ -in. ditto

358 Ditto 4-in. ditto

359 Electric railway, new, perfect condition

360 Complete cinematograph for home use

361 Two $5\frac{1}{2}$ -in. enlarging lenses

END OF FIRST DAY'S SALE.

SECOND DAY'S SALE.

Friday, December 10th, 1920.

AT 12.30 O'CLOCK.

ON VIEW:

Thursday, 12.30 to 5.30 p.m.

Friday, 9.30 a.m. to 12 noon.

MISCELLANIES.

LOT	
401	A pair of antlers, curtain pole, and various iron rods for curtains
402	A small washing machine for blankets
403	Fifteen gramophone records
404	Sixteen gramophone records
405	Two expensive vacuum cleaners
406	A small wringer
407	A plated hot-water jug, a ditto flask, and a plated kettle stand
408	One hundred and forty antique copper coins and tokens
409	Box of gold and silver articles, coins, and jewellery
410	A silver motor clock
411	A very heavy silver cigar case, beautifully engraved
412	Heavy silver flask
413	A 14-day ormolu clock, in order
414	A gold expanding wrist watch

415 Mahogany H.M.V. hornless gramophone, cost 14 guineas

416 Gramophone, Columbia, double motor

417 Mahogany pedestal gramophone, fitted double spring motor, goose neck, tone arm, and sound box

418 Oak pedestal gramophone, fitted double spring motor, goose neck, tone arm and sound box

419 Mahogany pedestal gramophone, fitted double spring motor, goose neck, tone arm and sound box

420 Oak pedestal gramophone, fitted double spring motor, goose neck, tone arm and sound box

421 Mahogany pedestal gramophone, fitted double spring motor, goose neck, tone arm and sound box

422 Oak pedestal gramophone, fitted double spring motor, goose neck, tone arm and sound box

423 A Remington typewriter, No. 7, 9-in. roller

424 A ditto

425 A Remington typewriter

426 A 4-ft. oak pedestal roll-top desk (no centre drawer), slightly damaged

427 An Elliott-Fisher book-keeping machine

428 An Elliott-Fisher book-writer

429 *Six Ediphone dictating machines, etc., and a machine for shaving cyclinders*

430 Goerz prismatic monocular prismatic field glass, in leather case

431 A gentleman's silver English lever, lady's silver watch, and a metal watch

432 Binocular microscope, rack and fine adjustments, inclining, with eyepieces and objective, condenser, etc., in mahogany case

433 A No. 11 Remington typewriter in first class order and condition, fitted 2 colours, backspacer and tabulator

434 Expensive pair electric curling irons, complete with flex and wall plug

435 Foolscap carriage, for Oliver visible type-writer

436 A No. 10 Smith Premier visible type-writer, writing 2 colours, with back-spacer and tabulator, first class order and condition

437 An oblong Japanese lacquer tray, inlaid silver

438 A ditto, ditto

439 A circular ditto

440 A ditto, ditto

441 A pair of Oriental porcelain ginger jars and covers

442 Handsome pair ditto vases, birds and flowers, 18in.

443 Another pair (smaller)

444 A porcelain tazza, enamelled in basket of flowers, on pink ground

445 Set of 3 Chinese porcelain plates

446 Large yellow ground jar and cover painted in birds and flowers, 15in.

447 A silvered and gilt shrine with figure of Buddha

448 A ditto with 3 idols

449 Pair eggshell Oriental vases

450 A ditto pair (globe-shaped)

451 Two coloured Oriental figures

452 Large mandarin necklace with pendant and drops

453 Two ivory necklaces, graduated beads

454 Pair Chinese vases, richly decorated in figure and birds

455 A set of 5 vases, 3 with covers

456 A carved ivory group of figures

457 A ditto, ditto

458 Fur coat with fashionable skunk opossum collar

459 A ditto

SCIENTIFIC INSTRUMENTS, &c.

460 A student's microscope by Crouch, with 2 eyepieces, and objectives, in case

461 A fine case of optician's eye testing lenses, by Pickard & Curry (incomplete)

85

462 A graphoscope (folding)
 463 Sextant, by Schmalcalder, with horizon
and $1\frac{3}{4}$ lbs. mercury, in brass bound case
with lock and key
 464 Surveying level by Adie, in case with lock
and key, and tripod for same
 465 Surveyor's staff, 3-length, 14ft.
 466 Prismatic field glass, 8x central focusing
and case
 467 Monocular microscope by Smith & Beck,
mechanical stage, substage condenser, 4
eyepieces, 3 objectives, and 12 other
fittings in mahogany case
 468 Special polariscope set for the above
microscope
 469 Six dozen popular microscope slides, in case
 470 Prismatic binocular, new condition, in case
 471 Long range taper telescope, in case, 2 eye-
pieces
 472 Three $\frac{3}{4}$ -in. telescope object glass, in brass
mount
 473 Large prism binocular telescope by Carl
Zeiss
 474 Claude Lorraine mirror and sketching
board by Steward, Strand
 475 Corn scales in case, thermometer and
compass
 476 Single lantern by Newton & Co., 4-in.
condenser, complete in case
 477 Seventy coloured lantern slides on Japan,
and 25 on India
 478 One hundred and ten ditto—many hand
coloured—Africa
 479 Fifty-five ditto, coloured Egypt, and 36
others
 480 Eighty ditto, coloured, in box
 481 Seventy Continental views by Levi, Paris,
and 48 others
 482 Large quantity of lantern slides (over $\frac{3}{4}$
hundredweight)
 483 Two large diameter cinematograph lenses
 484 Three Pathé lantern lenses
 485 Two large diameter cinematograph lenses

486 A No. 3 Powell & Lealand microscope, 1 eyepiece, mechanical stage and fine adjustment

487 A Powell & Lealand student's microscope, 1 eyepiece, and sliding bar stage

488 Orthoscopic eyepiece by Zeiss

489 Micro spectroscope by Zeiss, in case

490 Binocular eyepiece by Zeiss, in case

491 A binocular microscope by Crouch, 2-in. 1-in., and $\frac{1}{4}$ -in. objectives, achromatic condenser, polarizer, parabolic reflector, 2 eyepieces, lieberkuhn, live box, camera lucida, etc., in mahogany case

492 Expensive mechanical microscope stage with double rack and pinion, horizontal motions, and screws for attaching to any plain stage

493 Massive brass dissecting microscope stand with lens holder, stage with large aperture, rack and pinion coarse adjustment, swing mirror, extension tube and swivel motion, on heavy triple foot base

494 Zeiss prismatic binoculars, 8x, in case

495 Zeiss marine binoculars, 6 x 30

496 Zeiss prismatic binoculars, 6x, in case

497 Goerz field glass

498 Zeiss prismatic binoculars, 6x

499 *Negretti & Zambra binocular microscope*, in glass-fronted mahogany case with various accessories, including 5 objectives, 5 eyepieces, micrometer ditto, camera lucida, substage condenser with iris, spot lens, large and small bull's-eye condensers, 2 live boxes, compressor, selenite stage, polariser, analyser, etc., etc.

500 *Swift micro lamp* with bull's-eye and other attachments, in case

500A *Automatic stamp affixing machine*, with numbering device and key

The third portion of the Collection of Microscopes and Apparatus formed by the late Sir Frank Crisp, Bart.

501 A binocular presentation microscope, the Watson Draper, rack coarse adjustment,

£ 25/-

9.0
21.1.

graduated patent fine adjustment, graduated inclination, rack adjusting substage with centering screws fitted with a pair of "B" capped eyepieces, 2 micro lamps with metal chimneys, and fitted with bull's-eye condensers attached to base of stand; the whole in new condition, by Watson & Sons

67-X 3.0.0

502 An "A" objective by Zeiss
 503 A "C" ditto
 504 An "E" ditto
 505 A "J" ditto
 506 A student's microscope stand by Zeiss, with eyepiece
 507 Microscope rack coarse adjustment, patent fine adjustment, rack adjusting substage with centering screws, rotating graduated mechanical stage fitted with "B" eyepiece by Ross
 508 A 4-in. objective by Ross
 509 A $1\frac{1}{2}$ -in. ditto
 510 A $\frac{1}{2}$ -in. objective by Ross, with graduated correction collar and cone front
 511 A $\frac{1}{5}$ -in. objective by Ross with graduated correction collar, can be used either as an immersion or dry
 512 Five odd stages
 513 Three goniometer stages
 514 Pair of "A" capped eyepieces, 1 with indicator, and a "B," "C," "D" and "F" ditto
 515 An "A" eyepiece with adjustable diaphragm, 2 "B" eyepieces; 1 with indicator, and 4 others
 516 Three capped eyepieces with indicators, and 4 others
 517 *Sphere of clear quartz, $2\frac{1}{2}$ -in. in diameter full, mounted on brass adjustable stand*
 518 Four cases of various coloured glass screens for the microscope
 519 Centering substage fitting, swing out under-stage, with iris, camera lucida, and other micro sundries

	520	Mahogany bodied projection lantern, 4-in. condenser, by Watson & Sons	
	521	A projection microscope fitted with drawing prism and rack adjustment, by Watson & Sons ; fits above lantern	
4/-	522	James' exhibition microscope	1. 10.
6/-	523	Student's microscope by Kellner, fitted with eyepiece and objective	2. 15.
L5	524	Portable microscope and a student's ditto, with objective and eyepiece	
	525	Demonstration microscope by Nachet, with extra handle and stand	4. 0.
	526	Student's microscope by Gundlach, rack coarse adjustment, rotating goniometer stage	
L4	527	Portable microscope, rack coarse adjustment, in brass case	4. 0.
L7	528	Koristka's large stage microscope	4. 0..
L4	529	Erecting binocular rack coarse adjustment, fitted with a pair of capped eyepieces	6. 6.
L5	530	Worked sphere with universal movements in brass mount, by C. D. Ahrens	4. 5.
6/-	531	Two small youths' microscopes, 1 by Schirck	3. 0.
	532	A $\frac{1}{8}$ -in. micro objective with correction collar, by Powell & Lealand	
L5	533	Soiree microscope, with a pair of capped eyepieces, stage condenser and lamp, by R. & J. Beck	3. 0.
L15	534	Giant microscope with adjustable stage, fitted capped eyepiece	10. 0..
	535	Revolving polariscope, fitted with a square end prism, $\frac{3}{4}$ -in. by $\frac{3}{4}$ -in. by $1\frac{3}{8}$ -in.	
75/-	536	An Amica prism on adjustable stand, and another prism on stand	3. 0.
35/-	537	A prism with circular faces, 2-in. diameter, on adjustable brass stand	
	538	A light modifier on stand with ball and socket movements, and an adjustable screen holder and a lens holder with ball and socket movements	
	539	Polariscope, and 4 nicol prism analysers	

6/- 540 Bull's-eye stand condenser with ball and socket movements, lens $2\frac{1}{2}$ -in. in diameter

5/- 541 Gas micro lamp, and another

5/- 542 An expensively mounted drawing prism by Nachet, on rack adjusting stand

£5. 543 A microscope of unusual design, rack coarse adjustment, fitted with eyepiece, objective and stage bull's-eye, by Morrau, Paris

✓ 9/- ✓ 544 Student's microscope, rack coarse adjustment, fitted with eyepiece, by Anderson

✓ 10/- ✓ 545 Two dissecting microscopes

£10/- 546 An expensively made reading microscope on stand, by Weston, Rostock

£10/- 547 Projection microscope

£10/- 548 Universal microscope with tricolour and binocular bodies, by Beck

549 Ten various stages

550 Abbé's hemisphere puzzle plate in brass frame, and a defraction plate in brass mount by Zeiss; 3 astrosopes, a defraction apparatus by Tisley, and a defraction plate by Zeiss (faulty)

551 A set of 3 swing-out Darker selenites, and a reflecting polariscope

552 Rack centering substage, fitted with achromatic condenser

553 Kellner achromatic eyepiece, another with indicator, high power ditto by Beck, and 3 others

554 Portable binocular microscope with rack adjustment for width of eyes, and rack adjusting substage; pair of "B" eyepieces, polariscope and analyser substage condenser, spot lens, paraboloid silver side reflector, 5-in., 4-in., 2-in., 1-in. and $\frac{1}{2}$ -in. objectives, with other fittings, in leather case

4/- ✓ 555 Large projection lens in brass mount

£4/- ✓ 556 Student's microscope with mechanical stage, by Pritchard

£5/- ✓ 557 Small binocular microscope by Nachet

£8/- ✓ 558 Microscope for showing the effects of high pressure, by Ducretet, Paris

*3.0.0**2.10.0**4.10.0**5.0.0*

£ 4 559 Petrological microscope with nicol prism polariscope and goniometer eyepiece, fitted with analysing prism

£ 10 560 Two youths' microscopes

561 *Binocular microscope, the Watson-Crossley rack coarse adjustment, adjustment for width of eyes, patent fine adjustment* graduated, rack substage with centering screws, and a revolving mechanical goniometer substage, fitted with a pair of capped eyepieces

£ 8 562 A best quality microscope with rack coarse adjustment, divided fine adjustment, rack rotating goniometer mechanical stage, rotating substage with centering screws, by Ross

563 Objective by Nobert, and 3 others

564 Four microscope objectives

565 Five odd size objectives

566 Twenty small magnifying non-achromatic single powers

£ 5 567 Demonstration microscope by R. & J. Beck

568 Trichina microscope compressor, microscope with extra large glass stage

£ 4 569 Three special magnifiers, 3, 6 and 10, by Reichert

570 Watson's modification of Mackenzie's removable swinging substages, and a mounted mirror

571 Bramhall's illuminator, and 3 paraboloids

572 Gundlach's illuminator and 5 other substages illuminators

573 Ten various substages illuminators

574 Superstage with mirror, mounted illuminator, and 3 others

575 Four vertical illuminators

576 A binocular illuminator, superstage, and 2 silver side reflectors

577 Binocular eyepiece (Tolles), by Ladd; tubes separated by pins travelling in spiral slots

578 Hot stage in case

579 Spherometer by Dollond

*50/-**C**10/-*

£5	580	Microscope with rack coarse adjustment, by Gaubert, Paris	2.0.0
	581	Portable microscope by Murray & Heath, fitted with eyepiece and objective, and another	
£5	582	Demonstration microscope with eyepiece objective and condenser	
	583	Portable dissecting microscope with powers and apparatus, and another	
85/-	584	Three dissecting microscopes	
85/-	585	Three small dissecting microscopes	2.10.0
	586	Three ditto	
	587	A small aquarium microscope, and a dissecting microscope	
£15	588	A microscope, rack coarse adjustment, rack substage with centering screws, rotating stage by Tolles; the working instrument of C. STODDER, U.S.A.	10.0.0
£9	589	Elaborately constructed microscope, fitted with 3 various powers and universal movements	4.10.0
50/-	590	Koch and Maxwol's patent reflecting microscope lamp, and 2 lamps with bull's-eye stand condensers	1.15.0
60/-	591	Expensively mounted dissecting lens with ball and socket movements, on stand	
	592	Three small dissecting lenses on stands	
	593	Copper oven for cultivation of bacteria, and stand	
60/-	594	Ultzmann's saccharometer eyepiece, by Reichert	
65/-	595	Therry's hand spectroscope	2.2.0
	596	Bent body tube and a right angle prism	
	597	Microscope with eyepiece, by Plossel	
£12	598	A presentation microscope, rack coarse adjustment, graduated fine adjustment, rotating centering goniometer stage, rack adjusting substage with centering screws; the instrument rotates on the base and is graduated, by Bausch & Lomb	10.0.0
£4	599	Ahrens' binocular microscope, mechanical stage, fitted with a pair of eyepieces and objective	9.0.0

Y.S. 600 Oculist's microscope by Nachet, and triple objective

601 Student's microscope, rack coarse adjustment, and another

602 Microscope by Plossel, and another by Pritchard

£.8 603 Demonstration microscope fitted with eyepiece and condensing lens, and 2 others

75. 604 A Ramsden micrometer eyepiece, fitted to draw tube, and a dissecting lens with 3 powers on stand

35. 605 Four microscope stages

606 Ten various eyepieces

607 Six frog plates

608 Seven odd objectives

609 Two diamond writings, 2 micrometers—100 and 500, and sixteenth chapter of St. John micro lithographed

610 Three electrical stages with platinum points

611 Mechanical finger by Zentmayer, and 2 electrical stages

612 Test plate by Zeiss, and a Maltwood finder, both in brass frames

613 Nine various single nose-pieces

614 Five various safety stages

615 Bottrel's zoophyte trough, two focusing eyepieces, and five eye-shades

616 Jung's compressorium, Kunchel's "Herculaïs" compressor (Verick), and two others

617 Reflecting camera lucida, Malassez's ditto, and another

618 Camera lucida by Beck, ditto by Nachet, and three others

619 Zeiss camera lucida, a camera lucida by Chevalier, and three others

620 Sorby's spectroscope for binocular microscope, by R. & J. Beck

621 Goniometer eyepiece with one and three cross threads and graduated collar and vernier

622 Nacher's micrometer eyepiece with micrometer

623 Burch's reflecting micrometer, a stage micrometer (millimetres) by R. & J. Beck, and two others

624 Micrometer stage

625 Beck's Krato meter eyepiece, and an eyepiece with an adjustable slit

~~£3~~ 626 Four micro photographic fittings, and a mounted lantern condenser ~~C 8. 0~~

~~£10~~ 627 Nine various eyepieces

~~£10~~ 628 Dery's twin microscope, with mechanical motions in both directions to the stage forceps, carrier fitted with stage forceps, and two eyepieces by R. & J. Beck

~~£4~~ 629 Kuhn's chemical microscope for high pressures, fitted with square-ended nicol prism and analyser special objective, eyepiece and condenser

630 Expensive calliper reading microscope with eyepiece and objective, by Meisner, Berlin

~~75/-~~ 631 Solar microscope of unusual design ~~—~~ ~~1. 10. 0~~

632 A student's microscope by Klon & Muller, and another fitted with eyepiece and objective

633 Three student's microscopes, fitted with eyepieces and objectives

~~40/-~~ 634 Microscope, incomplete, and another ~~C 16. 0~~

~~635~~ Two student's microscopes

636 Projection microscope by John Browning, with rack adjustment

~~£4~~ ~~199/-~~ 637 Antique projection microscope with fittings, in case ~~1. 5. 0~~

~~50/-~~ 638 Youth's microscope with fittings, in case ~~18. 0~~

~~35/-~~ 639 James' exhibition microscope ~~2. 0. 0~~

~~35/-~~ 640 Eight exhibition slides, including a fine specimen of the scarce fairy fly ~~Incomplete~~ ~~1. 4. 0~~

~~XX~~ 641 Twenty opaque and transparent slides ~~Handed to Mr. C. S. 21/1/21~~

~~35/-~~ 642 A microscope in the form of a seal ~~Handed to Mr. C. S. 21/1/21~~

~~75/-~~ 643 A curious projection microscope, and four various fittings ~~Handed to Mr. C. S. 21/1/21~~

644 A polished mahogany fitted microscope cabinet, containing live box, vial holder, stage forceps, objectives, and other fittings ~~Handed to Mr. C. S. 21/1/21~~

~~You returned~~

✓ 645 Warrington's portable microscope with objective, and other fittings, in case

✓ 646 An old projection microscope, and part of another

647 Warrington's portable microscope with eyepiece

✓ 648 Matthew's portable microscope with objective eyepiece, and a few fittings, in case

✓ 649 An aquarium microscope, and another

✓ 650 A projection microscope with rack adjustment, and a spectroscope stand

✓ 651 A double-bodied microscope, by Nachet

✓ 652 Abbé's apertometer by Zeiss

✓ 653 Curious wooden microscope, and another

✓ 654 A Foucault prism, and a revolving selenite stage

✓ 655 Two mounted nicol prism polariscopes, and 2 ditto analysers

✓ 656 Rotating polariscope fitted to spring stage, by Bausch & Lomb, and a large nicol prism polariscope

✓ 657 Reflecting polariscope to fit over mirror, nicol prism ditto, and 2 other nicol prisms

✓ 658 Two copies of F. A. Nobert's defraction rulings in case—3001 lines in Paris inch, and another mounted

✓ 659 Abbé's analysing eyepiece

✓ 660 Six odd polariscope fittings

✓ 661 A reflecting polariscope, a mounted nicol prism, and 7 fittings for polariscope

✓ 662 Three pieces of chilled glass, 3 prisms, a cube of uranium glass, and a $\frac{1}{4}$ wave plate

✓ 663 A dichroscope by Hoffman, Paris, with specimens

✓ 664 A ditto lot

✓ 665 Three substage condensers, 1 by Powell, and 2 by Ross

✓ 666 Expensively made microscope with rack adjustment, graduated fine adjustment, by Ross

✓ 667 Binocular magnifier by Beck, on stand

	668	Student's microscope with eyepiece and objective, and a small dissecting microscope	3.0.0
£12	669	Expensively made micrometer stage with rack movements and reading by Vernier	
75/-	670	Two expensive hot stages, and a spirit lamp	
	671	A triple nosepiece, a substage superstage, and 2 pairs of safety rings	
	672	Dr. Matthew's calliper eyepiece, "B" eyepiece with 2 indicators, "C" eyepiece with indicator, and 2 others	
	673	Four microscope stages	
	674	Stand for dissecting microscope by Beck, and a ditto by Chevalier fitted with a power	
	675	An expensively made plane table, a circular protractor divided on silver and reading by Vernier, by Negretti & Zambra	
£15/-	676	An expensively made drawing microscope, rack coarse adjustment with scale, horizontal eyepiece and special objective, in mahogany case, by Hartnack	9.0.0
75/-	677	A stand with rack adjustment for dissecting microscope, by Powell & Lealand, and another	
	678	Demonstration microscope with eyepiece, and 2 others	
	679	A portable microscope by Nchet, in case, with eyepiece and 2 objectives	
	680	Student's microscope, rack coarse adjustment, fitted with eyepiece, by Bausch & Lomb	
£5	681	Dissecting microscope by Chevalier, fitted with Brucke lens	
✓14/-	682	Eight various eyepieces	
	683	Eight odd objectives	
	684	Fuss's reflecting goniometer microscope, fitted with special square cut nicol prism analyser, divided on silver and reading by Vernier	

685 Kaleidoscope in case, stand for dissecting lens with ball and socket movements, another stand, and a small microscope

686 Student's microscope by Siebert with eyepiece and objective, and another with eyepiece

~~85/-~~ 687 Small binocular microscope 2.2.0

~~£5~~ 688 Two dissecting microscopes, and another by Zeiss, with power

689 Student's microscope, and an antique ditto

690 Expensively made dissecting microscope with rack adjustment, by Klonne & Muller

691 Student's microscope, rack coarse adjustment, with eyepiece, by Powell & Lealand

~~£5~~ 692 Microscope of unusual form supported by monkey, and 2 others 3.0.0

693 Bacteriological microscope, rack coarse adjustment, by Zentmeyer (glass of stage broken)

~~£4/-~~ 694 A biological microscope, Wales form, by Watson

695 Student's microscope by Dancer

696 Two dozen microscopic objects, including a fine selenite slide, entire lower jaw of rat showing teeth, etc.

~~£5/-~~ 697 Plush lined microscope case containing vial holder, diaphragms, and other useful sundries 1.10.0

698 Two mahogany microscope cases containing a graduated microscope tube, and other sundries

~~45/-~~ 699 Microscope case containing spot lens, small substage with diaphragms, and large lieberkuhn, etc. 1

~~50/-~~ 700 Ten hand glasses and pocket magnifiers, and other sundries in case 1.4.0

Another property.

~~£4/-~~ 701 Beautifully-made, exhibition binocular microscope, the actual instrument that gained the 1st Class gold medal Phila- 39. R. C.

delphia Exhibition, rack rotating mechanical goniometer stage divided on silver to $\frac{1}{2}$ degree, rack adjusting and rotating substage divided on silver and reading to 1 degree, graduated fine adjustment on silver, 8 eyepieces, 4 being achromatic ; centering eyepiece, substage condenser, large bull's-eye stand condenser, spot lens, paraboloid, camera lucida, Amici prism, silver side reflector, double nose-piece, 3 live boxes, 4 compressors, Maltwood finder, frog plate, stage bull's-eye, and a number of other accessories in 2 cases ; by Negretti & Zambra ; originally cost £300

702 *Field's differential ratio polariscope, fitted with a large nicol prism 1 $\frac{1}{4}$ in. by 2 $\frac{1}{2}$ in., 3 graduated rack rotating selenites, and achromatic substage condenser for the exact application of polarised light ; also the companion analyser, rotating by geared rack and pinion, with printed directions*

703 *Micro spectroscope, rack adjusting slit variable in two directions, removable companion prism, stage and mirror removable*

704 Best quality Ramsden eyepiece, micrometer movements, divided on silver

705 A 4-in. best quality micro objective in case

706 A 3-in. ditto, double combination

707 A 2-in. ditto ditto with lieberkuhn

708 A 1 $\frac{1}{2}$ -in. ditto

709 A 1-in. ditto

710 A $\frac{1}{2}$ -in. best quality micro objective, graduated correction and lieberkuhn

711 A $\frac{1}{4}$ -in. ditto, ditto

712 A $\frac{1}{6}$ -in. ditto, ditto

713 A $\frac{1}{8}$ -in. ditto, ditto

714 A dense glass spectroscope prism, faces 2in. by 1 $\frac{1}{2}$ in., and another 1 $\frac{1}{2}$ in. by 2 $\frac{3}{8}$ in., for a camera obscura

715 An analysing eyepiece fitted with adjustable crystal holder, and revolving tourmaline in cap

L 716 ✓

716 A single air-pump with fittings, etc.

717 A dumpy level, 1 $\frac{1}{2}$ in. object glass, and 2 levels, by Yeates

718 A large photographic lens with arrangements for diffusion of focus, by McLean and Melluish, London ; in case

L 719 ✓

719 Beautifully-made antique 18th century chemical balance, in mahogany Chippendale case, with 2 levels, weights, etc., in drawers (glass cracked)

720 Astronomical telescope, 3in. object glass, eyepiece and sun cap ; no stand

721 Powerful 3-draw telescope and brass stand for same, to screw into tree or window frame

722 Microscope object cabinet, with mahogany glass-fronted door, to hold 1000 slides, flat

L 723 ✓

723 Antique mahogany-fronted specimen cabinet, of 6 drawers, cut-glass knobs

724 Portable microscope with rotating stage, fitted with 2 capped eyepieces, objective, camera lucida, live-box, and other fittings ; in mahogany case, by Moginie

725 A 3-in. microscope objective by R. & J. Beck

726 A 1 $\frac{1}{2}$ -in. and $\frac{1}{4}$ -in. microscope objectives by Hartnack

727 A 1-in. best quality microscope objective by Powell & Lealand, with lieberkuhn ; in case

728 A $\frac{1}{2}$ -in. microscope objective, with correction collar, by Ross

729 A $\frac{1}{4}$ -in. microscope objective by Powell & Lealand, with correction collar

730 A $\frac{1}{4}$ -in. microscope objective, with graduated correction collar, N.A. .76, and fitted with lieberkuhn, by Powell & Lealand

731 A $\frac{1}{4}$ -in. microscope objective, graduated correction collar in case, by James Smith

732 Portable microscope, eyepiece, a double objective, live box, etc., in case, by Crouch

733 Bull's-eye stand condenser, 2 $\frac{7}{8}$ -in. lens, and camera lucida, by Powell & Lealand

*5.5.0**4.5.0*

£4 ✓ 734 Student's microscope in case, with fittings by Ross *1.6.0*

£6 ✓ 735 Bull's-eye stand condenser by Watson, and mineral holder by Beck

£6 ✓ 736 Graduated draw-tube with capped eyepiece and erector, by Beck ; and a number of other sundries, in fitted mahogany case

3.15.0 *£6 ✓ 737* Antique wooden microscope, and another antique microscope

£6 ✓ 738 Dissecting microscope by Ross, with rack adjustment in both directions, and 1in. with lieberkuhn, $\frac{1}{2}$ in. with lieberkuhn, $\frac{1}{4}$ in. and $\frac{1}{16}$ in. objectives

739 A set of 50 lantern slides—The Holy Land, in grooved box

740 A set of 50 lantern slides in grooved box—Egypt

741 A set of 50 lantern slides—Views of Venice, Florence, etc.

742 Twenty-five lantern slides, microscope objects, diatoms, etc., with reading ; and 25 others, in lined safety travelling case

743 Beautifully painted set of 33 astronomical slides, some mechanical, with printed lecture, by Carpenter & Westley

744 Beautiful set of 39 slides, of the Kings and Queens of England, in box, all by Carpenter & Westley

745 Lantern slide viewer by Robinson, and a number of fine art slides for same

746 Rectangular concave mirror $8\frac{1}{2}$ in. by $6\frac{1}{2}$ in., in silk-lined morocco case, by Carpenter & Westley

£8 ✓ 747 A fine set of lenses and half-lenses, concave, convex and cylindrical ; a prism, and a polyhedron, in fitted mahogany case, by Carpenter & Westley

4.10.0 *748* A mahogany cabinet containing Iceland spar and other prisms, quartz, and lenses, etc., for light experiments

749 A splendid set of 50 lantern slides, comprising views of Rochester, Exeter, Canterbury, and Worcester Cathedrals ; also Castle Ashby, Tewkesbury Abbey, and continental cities

PHOTOGRAPHIC APPARATUS, &c.

751 A 5 by 4 Adams Yale, with Cooke F/6·5,
22 film sheaths and canvas case

752 A $\frac{1}{4}$ -plate Adams Yale, no lens, changing
box and 12 sheaths

753 A $\frac{1}{2}$ -plate Lancaster field, with a rapid
rectilinear lens, a single lens, 3 double
dark slides and leather case

754 A $\frac{1}{4}$ -plate Adams focusing Ideal, with Ray
rapid rectilinear lens and 12 sheaths

755 Post-card roll film camera, no lens, but
automatic shutter

756 A $\frac{1}{4}$ -plate Eastman Kodak, with single
lens, 3 double dark slides, focusing screen,
and leather case

757 No. 3 "B" Alvista, 9in. by $3\frac{1}{4}$ in., with
rapid rectilinear lens

758 A $\frac{1}{4}$ -plate roll film Eastman with
rapid rectilinear lens

759 A $\frac{1}{4}$ -plate Lizars Challenge reflex, with 3
double dark slides ; no lens

760 A $\frac{1}{4}$ -plate focal plane camera, no lens, 6
double dark slides and leather case

761A No. 4 Panoram Kodak, model "B," with
single lens, leather case

762A A $\frac{1}{4}$ -plate Shew with rapid rectilinear
focusing lens, Thornton-Pickard focal
plane shutter, Adams' 12-plate changing
box and leather case

761 No. 4 bull's-eye Kodak, 5 by 4 box-form
camera, in fine condition ; always in focus,
fine lens

762 No. 5 cartridge Kodak $\frac{1}{2}$ -plate, double
extension, fine rapid rectilinear lens,
automat shutter ; splendid condition,
in leather case

763 A 9 by 12 folding camera, easily adaptable
for $\frac{1}{4}$ -plate, rack focusing, Zeiss double
anastigmat lens F/6·3 (Ica Tessar), fully
speeded shutter, film pack adapter and
velvet-lined leather case

764 No. 3 Brownie box-form Kodak, $\frac{1}{4}$ -plate ;
as new

765 Goerz Dagor lens, 165mm. ($6\frac{1}{2}$ in.), post-card or 5 by 4 size, compound shutter, works at F/6.8 (is marked German marking F/4.5)

766 Premo 5 by 4 folding camera, hand or stand, fine rapid rectilinear lens, Unicum fully-speeded shutter, 3 double dark slides and leather case

767 Goerz folding Tenax, 9 by 12c.m., double extension, rack focusing, Goerz Dagor lens F/6.8, 130mm. compound shutter, film pack adapter ; fine outfit

768 A 7 by 5 rapid rectilinear lens, and 2 other lenses

769 Fine Beck symmetrical lens, $\frac{1}{2}$ -plate, in fully speeded Unicum shutter

751 770 ~~Antique small bone microscope~~ C 100

771 Three lantern lenses and mount

772 Fine $\frac{1}{4}$ -plate Frena box camera

773 A 1A special folding Kodak, $4\frac{1}{4}$ in. by $2\frac{1}{4}$ in., in beautiful condition, Zeiss Tessar lens F/6.3, compound shutter ; a magnificent instrument

774 Very powerful astronomical or terrestrial telescope with 3 eyepieces, and brass tripod ; all in wooden case

775 Post-card size roll film camera, double extension, rack focusing, Ross homocentric lens F/6.3, compound shutter (all speeds to 1/250th), antinous release and leather case

776 Kodak daylight developing tank, $3\frac{1}{2}$ in., for all size spools up to and including post-card size

777 A 3A folding pocket Kodak, post-card size, fine rapid rectilinear lens, speeded shutter, and leather case

778 No. 2 Ensignette de Luxe as new, with fine rapid rectilinear lens, speeded shutter, focusing model in lined leather case

779 Fine pair of Watson's 6x prism binoculars, separate eyepiece focusing, strong leather case ; practically as new

780 Bausch & Lomb 6x prism binoculars, separate eyepiece focusing ; tan leather case

781 Mark VI. prism compass in tan leather case

782 A 3A folding Kodak post-card size, fine R.R. lens, automat fully-speeded shutter, leather case ; fine condition

783 Marion's square bellows $\frac{1}{2}$ -plate stand camera with fine R.R. lens, 3 brass-bound double dark slides, $\frac{1}{4}$ -plate carriers and leather case

784 Fine Crouch microscope with coarse and fine adjustments, 1in. objective, double nosepiece, eyepiece, condenser ; all in mahogany case

785 Fine student's microscope by Swift with adjustment 1in. and $\frac{1}{6}$ in. objectives ; eyepiece and mahogany case

786 Very powerful long-range telescope

787 A pair of 6x prism binoculars by Manhattan Optical Co., Zeiss lenses, central focusing, eyepiece adjustment and leather case ; very fine condition

788 Pair of powerful field glasses in leather case

789 A $\frac{1}{4}$ -plate magazine camera with fine rapid rectilinear lens, speeded shutter, magnifiers, etc.

790 A fine old-fashioned whole-plate studio camera, portrait lens and a double dark slide

791 Very heavy wood tripod for whole-plate camera

792* Thornton-Pickard time and instantaneous shutter for large lenses

793 No. 1 folding pocket Kodak, old model but effective

794 Goerz folding Tenax $\frac{1}{4}$ -plate Manufoc model, double extension, rack focusing, Goerz Dagor lens F/6.8, compound shutter, film pack adapter and leather case

795 A $\frac{1}{4}$ -plate folding camera with good rapid rectilinear lens, no slides

796 Thornton-Pickard $\frac{1}{4}$ -plate Ruby, morocco leather-covered, reflex camera, long extension; special Cooke F/4.5 anastigmat lens, focal plane shutter, 3 double dark slides, film pack adapter and velvet-lined leather case; in perfect and new condition, a magnificent outfit

797 Thornton-Pickard 3-fold best quality ash tripod, with top and straps, as new

798 No. 1 special folding Kodak 3 $\frac{1}{4}$ by 2 $\frac{1}{4}$; as with Bausch & Lomb anastigmat lens F/6.3, Velosto fully-speeded shutter up to 1/300th second; velvet-lined case

799 Ensign folding roll film camera, $\frac{1}{4}$ -plate with Ensign anastigmat lens F/7.7, Ensign sector shutter, all speeds to 1/100, adaptable for plates

800 Cooke $\frac{1}{2}$ -plate (7 $\frac{1}{2}$ in.) Series III. anastigmat lens F/6.5, as new

801 Three folding Kodak spools, 6-12 exposure, cost 27/-

802 Ditto

803 No. 4 cartridge Kodak for 5 by 4 roll films, double extension, fine rapid rectilinear lens, speeded shutter

804 Large oil floating compass by Negretti & Zambra; in leather case, cost £9

805 Prism binoculars, 8-magnification, eyepiece focusing, leather case; a very brilliant pair of glasses

806 Strong mahogany $\frac{1}{2}$ -plate camera by Hare, with fine Ross lens, one double dark slide, magazine plate-holder and leather case

807 Half-plate camera with 6 mahogany double bookform slides

808 Bausch & Lomb prism binoculars, 6-magnification, tan leather case; excellent glasses

809 Six Goerz 9 by 12cm. film packs, perfect

810 Ditto

811 Kershaw prism binoculars 6x, in leather case; the best English glass

812 Fine sextant in case, by Le Roy

813 Vest pocket Kodak, Ross homocentric anastigmat lens F/6·3, speeded shutter, leather case

814 A $\frac{1}{4}$ -plate Klito de Luxe folding camera, double extension, fine anastigmat lens, Ensign sector shutter, 6 slides and leather case

815 A $\frac{1}{4}$ -plate roll film No. 3 folding Brownie ; fine condition

816 Pair of opera glasses in gilt and mother-of-pearl ; very fine

817 Goerz Manufoc $\frac{1}{4}$ -plate folding Tenax, double extension, rack focusing, Goerz Dagor lens anastigmat, F/6·8 compound shutter, 3 slides and film pack adapter ; as new

818 No. 3 autographic folding Kodak, $\frac{1}{4}$ -plate, as new ; Goerz double anastigmat lens F/6·8, Ibsø fully-speeded shutter ; very fine lot

819 *Post-card folding Carbine, latest model, Cooke anastigmat lens F/6·3, Velosto shutter, with speeds to 1/300th second*

820 A 2A boxform Brownie, $4\frac{1}{4}$ by $2\frac{1}{2}$, and excellent fixed focus Kodak

821 A 5 by 4 folding hand and stand camera, fine rapid rectilinear lens, adjustable shutter, 3 double dark slides and case

822 Zeiss Unar F/6·3 anastigmat lens in compound shutter, speeds to 1/250th, $5\frac{1}{2}$ in. focus ; as new

823 Vest pocket Kodak, autographic model, in leather case

824 No. 2c Junior autographic folding Kodak, fine rapid rectilinear lens, speeded shutter; very little used

825 Powerful pair of field glasses in leather case

826 Fine pair of Ross prism binoculars, 6x, in strong leather case ; practically as new

827 No. 2 Brownie boxform camera, $3\frac{1}{4}$ by $2\frac{1}{4}$, as new

828 Student's microscope of fine quality and very compact, $\frac{1}{4}$ in. and 1in. objectives, bull's-eye condenser, live box, specimens ; all in mahogany box

829 A $\frac{1}{2}$ -plate stand camera, fine rapid rectilinear lens, 3 bookform mahogany slides, roller blind shutter, limp case

830 Two leather cases for No. 3 folding Kodaks

831 Studio camera with fine portrait lens, in rack focusing mount and slide

832 Five watch pocket Klimax slides

833 Eight $\frac{1}{4}$ -plate single cameo slides

834 Six vest pocket size slides

835 A fine pair of Zeiss 8x prism binoculars in excellent condition

836 A 4-draw telescope, very powerful marine model by Broadhurst Clarkson & Co.; tan leather covered

837 Parcel containing 3 double dark slides, Watkins Bee meter, Nucrometer focusing cloth and film carriers

838 Three leather cases for cameras, Nos. 1 and 1A

839 Six vest pocket slides for vest pocket Tenax, etc.

840 A 13 by 18cm. Favon folding, hand or stand camera (easily adaptable for $\frac{1}{2}$ -plate), double extension rack focusing, reversing back, Zeiss double protar lens F/6.3, 8in. and 14in. foci, compound shutter, 3 double dark slides and velvet-lined solid leather case

841 Fine tan leather case, velvet-lined for camera

842 Holborn Ilex $\frac{1}{4}$ -plate magazine camera for 12 plates, fine rapid rectilinear lens, adjustable shutter

843 A $3\frac{1}{2}$ by $2\frac{1}{2}$ box Frena camera ; fine quality lens

844 Stereoscopic Co.'s twin lens reflex camera, $\frac{1}{4}$ -plate, with fine black band lens F/6 for 12 plates, in strong leather case

845 Special $3\frac{1}{2}$ by $2\frac{1}{2}$ box Frena camera with Steinheil rapid rectilinear lens and magnifiers

846 Strong wooden tripod for $\frac{1}{2}$ -plate camera, with top

847 A 3A folding Kodak, postcard size, fine Kodak anastigmat lens F/6·8, fully speeded shutter, tan leather case ; splendid condition

848 A 9 x 12cm. and $\frac{1}{4}$ -plate folding plate camera, fine rapid rectilinear lens in speeded shutter, with 5 metal slides ; in first-class condition

849 A $3\frac{1}{4}$ by $2\frac{1}{4}$ Premoette camera for film packs ; a remarkable compact pocket camera

850 Small upright model microscope in case, with slides ; useful instrument

851 A $\frac{1}{4}$ -plate magazine camera, 3 sheaths, in fine condition

852 Mark VI. prism compass in tan leather case

853 Shew $\frac{1}{4}$ -plate Xit camera, Ross Goerz lens, 6 double slides, all bound in aluminium ; in leather case

854 A vest pocket Kodak camera with autographic back, in case, and 4 new Goerz-Tenax films for same

855 A $\frac{1}{4}$ -plate Salex reflex camera, F/5·6 Ross homocentric lens, focal plane shutter and 3 double slides ; a fine lot

856 A $\frac{1}{4}$ -plate Adams' Natti camera, Ross homocentric lens, speeded shutter, Premo film pack holder and carrying case

857 A fine Beck deerstalking telescope in sling case

858 Oliver No. 3 typewriter

859 A new Petroliti table lamp

860 A Macaura Pulsocon

861 Tropical and other clothing, various, a bundle

862 No. 3A Kodak developing tank complete, 3 printing frames, and a 12 by 10 washing tank

END OF SALE.

SALE ANNOUNCEMENTS.

TUESDAY, DECEMBER 14th :—

China ; Ivories ; Cloisonné ; Ethnographical Specimens.

TUESDAY, DECEMBER 14th :—

**High-class Oil Paintings and Water-Colours,
by order of Messrs. J. Lawrence & Co.**

**THURSDAY and FRIDAY,
DECEMBER 16th and 17th :—**

**Scientific and Photographic Apparatus ;
Miscellaneous Property.**

TUESDAY, DECEMBER 21st :—

By order of the Trustees of the London Museum.

**100 lots of Antiquities, found in London ;
being duplicates from the London Museum.
Also Oriental Bronzes ; Cloisonné ; Ivories ;
Native Curios ; Weapons, etc.**

**WEDNESDAY, DECEMBER 22nd
(instead of Friday, December 24th).**

**Photographic and Scientific Apparatus ;
Miscellaneous Property.**

STEVENS' AUCTION ROOMS.

ESTABLISHED 1760.

Important to Trustees, Executors and others.

Mr. J. C. STEVENS begs to call attention
to the Sales regularly held at his Rooms.

**SCIENTIFIC, ELECTRICAL AND
PHOTOGRAPHIC APPARATUS
AND MISCELLANIES.**

EVERY FRIDAY a Sale is held which includes Microscopes, Telescopes, Cameras, Lenses, Lanterns, Cinematographs, Theodolites and Levels, and every class of Scientific Instrument; Lathes and Tools, Furniture, Silver Plate, Jewellery, Fishing Tackle, and Sporting Requisites.

**CURIOS, CHINA, BRONZES,
ARMS AND ARMOUR, IVORIES,
ETHNOGRAPHICAL SPECIMENS, etc.**

A Sale is held on **TUESDAYS**, twice in every month.

NATURAL HISTORY SPECIMENS.

MONTHLY Sales of Collections relating to Entomology, Ornithology, Conchology, Minerals, Heads and Horns, Cabinets, etc.

BOOKS.

Frequent Sales of Libraries relating to Natural History and kindred subjects.

Sales undertaken in Town and Country.
Valuations for Probate and other purposes.
Collections catalogued and arranged for sale.

Telegrams:—“Auks, Rand, London.”

Telephone:—Gerrard 1824.

Auction Rooms and Offices:

38 KING STREET, COVENT GARDEN, LONDON, W.C. 2.

Mjwcl

Suel.

9/0 Dec 20.

Phone : Gerrard 1824.

Sale Nos. 13,232—13,233

Sale commence at **12.30** o'clock each day.

THURSDAY and FRIDAY, DECEMBER 9th and 10th, 1920.

A CATALOGUE OF

Miscellaneous Property,

INCLUDING

Two 5-inch Ornamental Lathes by Holtzapffel ;
a variety of Chucks and accessories ; Circular Saw ;
Grinding Machine ; quantity of Tools and Drills ;

A LARGE IVORY TUSK ;
Several small Tusks ;

AND

QUANTITY OF HARDWOOD FOR TURNING.

The third portion of the

Collection of Microscopes and Accessories

formed by the late SIR FRANK CRISP, Bart.,
including many fine Microscopes, Spectroscopes, Polariscopes, etc.

Photographic Apparatus and Cameras,

with LENSES by Goerz, Cooke, Zeiss, Ross, etc ;

Telescopes, Lanterns and Slides, Prismatic Binoculars, Typewriters,
Gramophones, Records, Motor Cycle, etc.

MR. J. C. STEVENS

WILL SELL BY AUCTION AT HIS ROOMS,

No. 38, King Street, Covent Garden, W.C. 2,

On **THURSDAY and FRIDAY, December 9th and 10th, 1920,**

At **12.30** o'clock each day.

On view the day prior, from 12.30 till 5.30 o'clock, and Mornings of Sale
from 9.30 till 12, and Catalogues had of Mr. J. C. STEVENS, 38 King
Street, Covent Garden, W.C. 2.

Telegraphic Address: AUKS, RAND, LONDON.

Established 1760.

RIDDLE, SMITH & DUFFUS, Windsor House, Kingsway, W.C. 2, and Forest Hill, S.E. 23.

CONDITIONS OF SALE.

FIRST.—The highest bidder to be the buyer, and if any dispute arise between two or more bidders the lot so disputed shall be immediately put up again and re-sold. The auctioneer reserves to himself the right to refuse any bid, also to make any alteration in the catalogue.

SECOND.—No person to advance less than one shilling; above £2 two shillings and sixpence, and so on in proportion.

THIRD.—The purchasers are to give in their names and places of abode, and, if required, to pay down a deposit of five shillings in the pound in part payment of the purchase-money, in default of which the lot or lots so purchased to be put up again and re-sold at any convenient opportunity during the sale or otherwise.

FOURTH.—The lots are to be taken away and paid for, with all faults and errors of description, at the buyer's expense and risk, on the day immediately following sale. The auctioneer not being responsible for the correct description, genuineness or authenticity of, or any fault or defect in any lot, and making no warranty whatever.

Lastly.—Upon failure of complying with the above conditions, the money deposited in part payment shall be forfeited to the vendors, the lots remaining uncleared shall be re-sold by public or private sale, and the deficiency (if any) attending such re-sale, together with all incidental expenses and charges, shall be made good by the defaulters at this sale.

* * * Pictures offered for sale are attributed to the artists named, but no guarantee as to their genuineness is given or implied.

NO LOTS WILL BE TRANSFERRED.

The Clerk of the Sale has authority to refuse Cheques

A CHARGE FOR WAREHOUSING WILL BE MADE ON
LOTS NOT CLEARED PROMPTLY.

Telephone :—
GERRARD, 1824

Telegrams :—
AUKS, RAND.



BUYER

AUCTIONEERS

M K Simeon
Stevens

Date

Dec 10/

Lot

Amount

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Lot

Amount

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649 1-2-0

A CATALOGUE

FIRST DAY'S SALE

Thursday, December 9th, 1920.

AT 12.30 O'CLOCK.

ON VIEW:

Wednesday, 12.30 p.m. to 5.30 p.m.

Thursday, 9.30 a.m. to 12 noon.

MISCELLANIES.

LOT

1	A new canvas side cover
2	A case of insulators, and a hamper of baskets
3	An engine cylinder
4	A sheep-shearing machine in parts, a copper container, and a gas heater
5	Spong's knife machine, for 2 knives and carver, new condition
6	Piano stool, leather covered, square thread, new
7	An overcoat, by Aquascutum, Regent St., and a pair of brown leather leggings
8	Good electric mole coney coat, American dye
9	Good electric French coney coat, long hair mole coney collar and cuffs
10	Ditto with dark collar and flounce

11	Two dozen $\frac{3}{4}$ -in. black handle hollow-ground Sheffield make razors
12	Lady's rosewood dressing case
13	An 18-inch decorated Imari plate
14	A Sheffield-plated 3-bottle liqueur stand, and a 2-bottle ditto
15	Silver Waltham demi-hunter, silver wristlet, and 2 gun-metal watches
16	A gentleman's gold hunter, in good working order
17	Twelve small Baxter prints, and one Le Blond print
18	Gold bracelet watch
19	Gentleman's gold signet ring
20	Gold chain ring
21	Well-made coil and spring winder
22	Lady's silver wrist watch, and another
23	Electro-plated table lamp
24	Brass table lamp
25	Steljes' recorder, new condition
26	Lady's escritoire, having finely painted Sèvres panels, and massive ormolu mounts
27	An open bookcase
28	Circular mahogany table on tripod feet

BOOKS, &c.

29	The Works of Samuel Johnson, LL.D., leather bound, 11 vols.
30	Byron's Life and Letters, 6 vols. ; Byron's Poetical Works, 10 vols.
31	Wordsworth Poetical Works, 6 vols. ; Atlas of Principal Cities of the World, Astronomical and Geographical Diagrams, and Morant's Geological Chart
32	Hallam's Middle Ages, History of England, etc., 13 ; History of the War, etc., 9
33	Twenty-four vols. various
34	Twenty-four vols. various
35	Twenty-four vols. various
36	Poems, etc., 12
37	Memoirs of Egypt Exploration ; Paris Picturesque ; History of York Cathedral ; Swiss Pictures, and 13 others (17)

38 Framed picture—Balaclava, and 2 others
 39 Framed engraving—Meeting of Wellington and Blucher
 40 Old engraving, framed—Blind Fiddler; painting in oils, crayon drawing, and another
 41 Charming water-colour drawing, gilt frame—York Minster
 42 Old painting in oils—Goats

GRAMOPHONES, RECORDS, &c.

43 A cabinet Zonophone with sound box, tone arm, and large horn, good motor
 44 A dozen gramophone records including 2 Tetrazzini, 1 Melba and some French operas
 45 Thirty assorted gramophone records
 46 Twenty-eight ditto
 47 Two dressing bags (one containing a number of silver-mounted fittings)
 48 A gentleman's dressing case with fittings, and 4 small writing pads
 49 One dozen Marathon records
 50 Sixteen Zonophone records
 51 Sixteen various
 52 Table gramophone, double spring
 53 New oak cabinet gramophone, complete
 54 Hornless oak cabinet gramophone, 6-in. tone-arm, complete, new
 55 Hornless oak cabinet gramophone, 5-in. tone-arm, complete, new
 56 Two doz. gramophone records
 57 Ditto
 58 A walnut penny-slot musical Polyphone, 3ft., and tunes, in perfect order (originally cost £20)
 59 Ditto
 60 Ditto
 61 Ditto
 62 Twelve rolls 65-note player-piano music
 63 Ditto, ditto

64	A very fine mahogany pedestal gramophone, with record cupboard, Chippendale style, fitted with heavy double-spring worm-driven motor, and fine sound box
65	Massive Heppelwhite style pedestal gramophone, with record cupboard, fitted with heavy double spring worm-driven motor and sound box
66	Mahogany pedestal gramophone, with record drawer and cupboard, fitted with double spring worm-driven motor and fine sound box
67	Mahogany dwarf pedestal gramophone with American double spring worm-driven motor and fine sound box
68	Solid mahogany pedestal gramophone with venetia front, fitted with double spring worm-driven motor
69	Twelve 12-in. gramophone records in album, H.M.V., Columbia, Celebrity, etc., condition as new
70	One dozen 12-in. gramophone records
71	One dozen 10-in. ditto
72	One dozen 10-in. ditto
73	One dozen 10-in. ditto
74	One dozen 10-in. ditto

WINES AND CIGARS.

75	Twenty-five cigars, La Flor de Villa Rica
76	Twenty-five ditto
77	Twenty-five ditto
78	Seventeen cigars, H. Upmann, Habana ; 3 ditto, John Alvarez ditto, and casket ; and 43 Partagas, Habana
79	Thirty-two cigars; Punch De Valley, Habana ; 9 ditto, Villar Villar, Habana ; 18 ditto, Henry Clay, Habana
80	Eighty cigars, Villar Villar, Habana
81	Fifty ditto, La Carona, Habana
82	Fifty cigars, Romeo y Julietta (size Romeo, No. 1), boxes of 25
83	Ditto
84	Ditto

85	Fifty cigars, Romeo y Julietta (size Romeo, No. 1), boxes of 25
86	Ditto
87	Ditto
88	Ditto
89	Ditto
90	One dozen bottles of St. Estephe, 1916 vintage
91	Ditto
92	Ditto
93	One dozen Red Lisbon wine, port style
94	Ditto
95	Ditto
96	Ditto
97	Ditto
98	One dozen Red Mistella wine
99	Ditto
100	Ditto
101	Ditto
102	Ditto
103	Sparkling Muscatel, Golden Coronet, a case of 12 bottles
104	Ditto
105	Ditto, a case of 24 half-bottles
106	Sparkling Muscatel (ruby), Golden Coronet, a case of 12 bottles
107	Ditto
108	Ditto, a case of 24 half-bottles

LATHES, TOOLS, &c.

To be sold about 2 p.m.

109	A large self-centering chuck, by Holtzapffel
110	A large 6-in. chuck, independent jaws
111	A small self-centering chuck, 1 screw chuck, 1 polishing disc, and various accessories, 14 pieces in all, and a small chest of lathe tools
112	A 12-in. independent chuck
113	Twelve lathe tools, $\frac{3}{8}$ -in. square
114	Watch jewelling tool, in case
115	Watchmaker's mandrel

116 *Drummond's* 3½-in. saw table, new, with spindle, and two saws

117 Scroll chuck, 2-in., and 6-in. circular saw on arbor

118 Working model of hydraulic press

119 Set of *Whitworth* stocks and dies, ⅜in., ½in. and ⅝in., new condition

120 Ornamental slide rest, by *Evans*

121 Divided chuck, by *Evans*

122 An 8½-in. *Horton* S.C. chuck, key, one set jaws

123 A 5-in. *Almond* S.C. chuck, key, one set jaws

124 *Gronkvist* chuck for morse taper shank

125 Manchester straight line tapping chuck with Morse taper shank

126 Ditto

127 *Motor cycle*, 3½-h.p., 3 speed gear, thoroughly overhauled and replated and enamelled and new parts, and new heavy Dunlop tyres and tubes

131 *Brown & Sharpe* 2-in. micrometer, and *Starrett* 2-in. to 7½-in. internal micrometer

132 An aluminium slide rule, in case

133 *Brown & Sharpe* cast steel standard rule, in mahogany case (24-in. long), markings, 1/64ths one edge, .01-in. other edge, and also a dot device for marking down to .001-in.

134 A 6-in. rule marking micrometer, by *W. Madsen*, marks off from both ends leading screw 1/40-in., controlled by double-handled disc showing .001 in a space of ¼in., the machine therefore can approximate to .0001, two screw vices and faces are adjustable to micrometers and has four distance pieces and back stop

135 *Starrett* micrometer, 1-in. Whitworth Standard, 8 to 13P. graduated, .000in. to 1-in. for screws, and 2 adjusting wrenches, all in wood box

136 *J. T. Slocomb*, 1-in. to 2-in. micrometer, 1·000 to 2·000 with adjusting wrench, in cardboard box

137 *J. T. Slocomb*, ·000-in. to 1-in. micrometer with adjusting wrench, in cardboard box, and an Imperial standard wire gauge, double disc type

138 A 4-draw pocket telescope, an ivory scale rule, and a Sikes's hydrometer

139 A sliding vernier micrometer by *Troughton & Simms*, to read up to 14ins. inside and 13ins. outside, by 1/400th inch, in hardwood case

140 Double spirit level, and steel straight edge, new

141 A large *Stanley* plane

142 Small vice, watchmaker's mandrel, and other tools

143 Mahogany case with taps and dies

144 Two 0- $\frac{1}{2}$ -in. *Goodell* pattern drill chucks, new

145 Two ditto

146 One *Goodell* pattern drill chuck, and gross 8-in. hack-saw blades

147 Two gross 8-in. hack-saw blades

148 Two gross 10-in. *Star* hack-saw blades

149 A large model engine, *Black Prince*, with brass boiler, complete with tender (A.F.)

151 A 5-in. centre lathe by *Holtzapffel*, with iron heads, brass pulley with speed grooves, best division plate, adjusting index, tangent screw movement, segment plate with stops, cylinder poppet head, 2 centres and flange, rest and 3 tees, mounted on a double-framed mahogany stand, iron bearings, double bevel wheel, crank and treadle, nest of 6 drawers fixed under lathe for chucks, etc. ; also boring collar, plate and head, overhead motion, 30 brass chucks, 8 drills, oval chuck and ring, compensating index and key, 3 pairs of double screw chucks, die chuck and lathe key, and a large number of boxwood chucks

152 A 5-in. ornamental slide rest, cradle, fluting stops, collar, winch handle, straight key and lever fitted with automatic drive for same, fitted for spiral apparatus and curvilinear apparatus

The following six chucks have been used with the above lathe, No. 2130 :—

153 Bennett's die chuck
 154 A gunmetal universal chuck
 155 A spherical chuck
 156 A rectilinear chuck
 157 An eccentric chuck
 158 A spiral chuck, radial arm and bolt, 16 change wheels, 3 arbors, surface spiral and bolt, 2 mitre and 2 round edge wheels, arbor for slide rest, blanks and washers and key
 159 A 5-in. Cushman chuck and key
 160 A 3-in. ditto (no key)
 161 Ditto, with key
 162 A 2-in. ditto and key, with 2 sets of jaws
 163 A guide for slender turning
 164 A ditto
 165 A set of 3 lathe taps, handled in mahogany
 166 Curvilinear apparatus consisting of 2 posts and screws, steel bar, 13 curves, and rubber
 167 A 5-in. centre lathe by Holtzapffel, No. 880, traversing mandrel, tangent screw movement, segment plate and stops, 6 screw guides, and conducting apparatus for same, best division plate, adjusting index, cylinder poppet head, 2 centres and flange, 2 hand-rests and 2 tees, lathe key, oval chuck and ring, 34 brass chucks, 10 brass rings for spring chucks, 12 carpenter's bits fitted to brass chucks, and a large number of boxwood chucks

The following have been used with above lathe :—

168 A spherical chuck
 169 An eccentric chuck
 170 A ditto

171 A spiral chuck, radial arm and bolt, 17
change wheels, 3 arbors, arbor for slide
rest, blanks and washers and key

172 A 5-in. ornamental slide rest, cradle,
fluting stops, collar, winch handle, straight
key and lever

173 *Atkinson's* reciprocator

174 A ditto

175 Four cutter bars

176 A cutter bar and 3 blades

177 Cutter bar for external threads, and 7
blades

178 A ditto for internal threads, and 15 blades

179 A triangular cutter bar, and 25 blades

180 A chisel cutter bar and 1 blade, and a
gauge cutter bar and 2 blades

181 A vertical frame by *Hines*

182 An internal cutting frame

183 A ditto

184 A uniyersal cutting frame

185 A large ditto with 3 pulleys and key

186 A universal cutting frame

187 An eccentric cutting frame and key

188 A ditto

189 A vertical cutting frame, 4 pulleys and
key

190 A ditto and key

191 An internal cutting frame with guide
pulleys

192 Brass centering plate, a brass grinder,
key for counter-sunk heads, 3 keys,
8 cylinder bits and 3 drills, 2 large slide
rest tools, a set square, a set bevel, 1 tap,
1 cylinder bit, and 3 handles, 2 screw
plates and taps

193 A small parallel vice

194 A goniostat in mahogany case, 3 cans of
powder, oil can, 3 laps, and 3 holders for
small cutters

195 Another in mahogany case, 3 laps, and 1
holder for small cutters

196 An instrument for sharpening bead tools,
in mahogany case, 12 cones, and 14 drills

197 A ditto in mahogany case, 7 cones, and 12
drills

198 A lot of miscellaneous cutters and tools
 199 A mahogany engine tool case, containing 86 small slide rest tools, 98 eccentric cutters, 36 universal cutters, a drilling instrument and 111 drills, a holder for sharpening, and a socket handle
 200 A mahogany case containing 151 slide rest tools, and socket handle
 201 A mahogany case containing drilling instrument and 102 drills, and a holder for sharpening
 202 A mahogany tray containing 90 slide rest tools and horizontal cutters
 203 A mahogany tray with drilling instrument and 140 drills
 204 A mahogany tray containing 133 eccentric cutters
 205 *Holtzapffel's circular saw on mahogany stand*, 6 saws, quadrant, and key
 206 *A grinding machine on mahogany frame stand*, trough and rest, 2 stones, lead cap, and buff wheel
 207 *A large well-seasoned ivory tusk, about 4ft. long, maximum diameter 4in.*
 208 A part ivory tusk, 12in. long, and 4½in. diam.
 209 Six small tusks and parts
 210 Ditto
 211 Eight part ivory tusks
 212 Six small pieces of ivory, and bag of fragments
 213 A large quantity of hard woods

Experiments made with aeroplane propellers have proved that they are suitable for turning, and very satisfactory results have been obtained by the vendors of the following lots :—

214 Three aeroplane propellers
 215 Ditto
 216 Ditto
 217 Ditto
 218 Ditto

219 One dozen new taps, *special Whitworth*
 220 One dozen ditto, .445, 20 threads
 221 Six ditto
 222 Ten high-speed drills, new, 10 millimetres,
 left-handed
 223 Two sets 5/16-in. *Whitworth* taps, 3 new
 224 Two ditto
 225 Three ditto
 226 Three new slotting cutters, 2½in. by $\frac{1}{8}$ in.
 227 Ditto
 228 Ditto
 229 Six ditto
 230 Six new slotting cutters, 3in. by 5/32-in.
 231 Six ditto
 232 A 4½-in. centre *Relmac* bench lathe, by
 Hatch, fast and loose pulleys, tail-stock,
 slide rest and lead screw, but no change
 wheels
 233 A massive 3-ft. oak bench with very heavy
 fly-wheel and treadle motion, and stepped
 driving pulley
 234 A grinding, polishing and turning lathe,
 2-ft. bed on iron standards, with heavy
 fly-wheels, treadle, tool rest, and emery
 wheels
 235 A Reliance post drill
 236 An engineer's 12-in. protected level, by
 Starrett
 237 Extension trammel and set ball points
 by ditto
 238 A *Lloyd's* register decimal gauge, for mea-
 suring hundredths, etc., with ordinary
 callipers
 239 A pair of Vee blocks and clamp for drilling,
 etc., round rods
 240 Two powerful 6-in. G cramps
 241 A massive bolt cropper (needs nut)
 242 A small blow lamp
 243 A small spirit soldering iron
 244 A *Goodell-Pratt* $\frac{1}{2}$ -in. drill chuck
 245 A new glazier's diamond
 246 A reciprocating hand-drill
 247 A vice for drilling machine use
 248 A tool pad and sundry callipers

249 A new 22-in. beech trying plane, and a ditto jack plane

250 A Union 9-in. iron smoothing plane, a pin vice, a hand vice, and a tap wrench

251 A *Clarke's* expansion bit for wood, expansion drill for iron, a new $\frac{5}{8}$ -in. twist drill, ditto reamer, etc.

252 A 7-in. circular saw, with lathe spindle (arbor)

253 A microscopic metal camera with lens, in case, twelve metal slides, and focusing screen

254 Two Huyghenian eyepieces, x4 and x6

255 A 5-in. Whitton 3-jaw scroll chuck, in good condition

256 A $4\frac{1}{2}$ -in. Parkinson quick-release vice, perfect

257 Microphotographic apparatus, consisting of microscope portion fitted with an objective and small condenser, and the camera portion with dark slide fitted thereto

258 One dozen centre drills, size B, new

259 One dozen ditto

260 One dozen ditto

261 One dozen ditto

262 One dozen ditto

263 Two dozen ditto

264 Two dozen ditto

265 One dozen twist drills, new, 9/64

266 One dozen ditto

267 Two dozen ditto

268 Two dozen ditto

269 One dozen twist drills, new, size 35

270 One dozen ditto

271 One dozen ditto

272 One dozen twist drills, new, size C

273 One dozen ditto

274 One dozen ditto

275 One dozen ditto

276 Two dozen ditto

277 Twenty-five metal saws, $2\frac{3}{4}$ in. diam. by 1-in. hole

278 Ten "India" and "Aloxite" stones, in teak tray
 279 Thirty reamers, standard, straight and taper, in stand, new
 280 A set of 1-in. *Whitworth* standard taps, in stand
 281 Thirty twist drills and cutters, in stand
 282 Four new milling cutters, 2 to $\frac{1}{4}$ -in., and 2 to $\frac{3}{8}$ -in. diam., and 16 small
 283 Armstrong knurling tool, 3 grades
 284 Two forming tool holders, inside and outside, with tools
 285 Brand new Starrett 4 to 5-in. micrometer
 286 Nine riveter's tools
 287 C.O. generator, new
 288 Ditto
 289 Stanley plane, No. 78
 290 Saw setting vice
 291 Carpenter's bench clamp
 292 Box joiner's tools, plane, set of scrapers, bits, etc.
 293 Box engineer's tools, hand drills, 6 spanners, foot-prints, stones, chisels, etc.
 294 Sixty twist drills; assorted
 295 Box of lathe tools
 296 Box of electrical sundries

297 Stock's patent bioscope lantern
 298 Busch A.G. Rathnow lens
 299 Ditto
 300 "Prince of Wales" acetylene generator and lamp
 301 Manheim slide rule in case
 302 Large 4-pole magnet
 303 A 20-gall. tinned steel petrol tank, fitted with unions
 304 No. 7 Elman's duplicator, nearly new, complete, mahogany case
 305 Twenty 10-in. assorted records
 306 No. 1 Hartford drill chuck, 0 to $\frac{1}{2}$ in., new
 307 A 3-piece electro-plated tea service
 308 Pipe wrench, and 4 builder's trowels
 309 Pair lever cutting pliers, and half-dozen razor strops

310 Pair candlesticks, and 6 egg cups
 311 A 26-in. hand saw, and 24 builder's levels
 312 Pair carriage lamps
 313 Two 28-lb. and one 400-lb. balance
 314 Brace and 6 bits
 315 Motor pump, and N.P. hack saw
 316 Bough pruner, and hack saw
 321 Two large model motors
 322 Large medical coil, in case
 323 One hundred pocket lamp 3½-volt bulbs,
 guaranteed perfect
 324 Thirty-six nickel-plated torch cases
 325 Three dead beat volt and amp. meters
 326 Large mechanical train, perfect
 327 Complete clown's costume, never worn
 328 Complete nigger's costume, quite new
 329 Complete pierette costume, new
 329A Twelve sets of coloured lantern slides
 (12 to a set, with readings)
 330 An 8½-in. enlarging condenser, new
 331 Four section telescopic metal tripod, new,
 fitted with double springs to each joint
 332 Lilliput roll film camera
 333 A ¼-plate folding camera with double lens,
 various speeds working at F/8 with focus
 screen, 2 metal dark slides, and antinous
 release, new, in perfect order
 334 Twelve ¼-plate metal slides to fit Cameo
 camera
 335 Twelve ditto to fit Klito camera
 336 Post-card size film pack adapter, to fit
 Klito camera
 337 Twelve pocket lamp accumulators
 338 Full-size optical lantern, complete
 339 Incandescent outfit, tray, fittings, and
 inverted burner
 340 Splendid mahogany bodied optical lan-
 tern with 4-in. Meniscus condenser, brass
 front, 2 doors, rackwork lens and incan-
 descent outfit, complete, new, perfect
 341 Twenty-four superior Sheffield safety
 razors, fitted with Gillette pattern blades
 342 Superior hornless gramophone, new, with
 six double-sided records

343 One hundred guaranteed perfect $2\frac{1}{2}$ -volt metal filament bulbs for pocket lamps and torches

344 Best large lens American torch (real fibre), with new battery, complete

345 Six new pocket lamp accumulators

346 Two motors

347 Three dozen horse-shoe magnets

348 Six dozen 2-ft. high rods, with aluminium fittings, suitable for lantern tripods, banisters, fencing, shelf supports, etc.

349 Two electric cycle lamps (front and rear)

350 Six post-card size metal dark slides, to fit Klito camera

351 Three perfectly new dead beat combined volt and amp. meters

352 Three Ediswan electric bells, new

353 Two high-grade Sterling Telephone Co.'s bells

354 Three best quality bells of the Efandem Company

355 Very special quality $2\frac{1}{2}$ -in. focus cinema lens, new

356 Ditto, 3-in. ditto

357 Ditto $3\frac{1}{2}$ -in. ditto

358 Ditto 4-in. ditto

359 Electric railway, new, perfect condition

360 Complete cinematograph for home use

361 Two $5\frac{1}{2}$ -in. enlarging lenses

END OF FIRST DAY'S SALE.

SECOND DAY'S SALE.

Friday, December 10th, 1920.

AT 12.30 O'CLOCK.

ON VIEW:

Thursday, 12.30 to 5.30 p.m.

Friday, 9.30 a.m. to 12 noon.

MISCELLANIES.

LOT

401	A pair of antlers, curtain pole, and various iron rods for curtains
402	A small washing machine for blankets
403	Fifteen gramophone records
404	Sixteen gramophone records
405	Two expensive vacuum cleaners
406	A small wringer
407	A plated hot-water jug, a ditto flask, and a plated kettle stand
408	One hundred and forty antique copper coins and tokens
409	Box of gold and silver articles, coins, and jewellery
410	A silver motor clock
411	A very heavy silver cigar case, beautifully engraved
412	Heavy silver flask
413	A 14-day ormolu clock, in order
414	A gold expanding wrist watch

415 Mahogany H.M.V. hornless gramophone, cost 14 guineas

416 Gramophone, Columbia, double motor

417 Mahogany pedestal gramophone, fitted double spring motor, goose neck, tone arm, and sound box

418 Oak pedestal gramophone, fitted double spring motor, goose neck, tone arm and sound box

419 Mahogany pedestal gramophone, fitted double spring motor, goose neck, tone arm and sound box

420 Oak pedestal gramophone, fitted double spring motor, goose neck, tone arm and sound box

421 Mahogany pedestal gramophone, fitted double spring motor, goose neck, tone arm and sound box

422 Oak pedestal gramophone, fitted double spring motor, goose neck, tone arm and sound box

423 A Remington typewriter, No. 7, 9-in. roller

424 A ditto

425 A Remington typewriter

426 A 4-ft. oak pedestal roll-top desk (no centre drawer), slightly damaged

427 An Elliott-Fisher book-keeping machine

428 An Elliott-Fisher book-writer

429 *Six Ediphone dictating machines, etc., and a machine for shaving cyclinders*

430 Goerz prismatic monocular prismatic field glass, in leather case

431 A gentleman's silver English lever, lady's silver watch, and a metal watch

432 Binocular microscope, rack and fine adjustments, inclining, with eyepieces and objective, condenser, etc., in mahogany case

433 A No. 11 Remington typewriter in first class order and condition, fitted 2 colours, backspacer and tabulator

434 Expensive pair electric curling irons, complete with flex and wall plug

435 Foolscap carriage, for Oliver visible type-writer

436 A No. 10 Smith Premier visible type-writer, writing 2 colours, with back-spacer and tabulator, first class order and condition

437 An oblong Japanese lacquer tray, inlaid silver

438 A ditto, ditto

439 A circular ditto

440 A ditto, ditto

441 A pair of Oriental porcelain ginger jars and covers

442 Handsome pair ditto vases, birds and flowers, 18in.

443 Another pair (smaller)

444 A porcelain tazza, enamelled in basket of flowers, on pink ground

445 Set of 3 Chinese porcelain plates

446 Large yellow ground jar and cover painted in birds and flowers, 15in.

447 A silvered and gilt shrine with figure of Buddha

448 A ditto with 3 idols

449 Pair eggshell Oriental vases

450 A ditto pair (globe-shaped)

451 Two coloured Oriental figures

452 Large mandarin necklace with pendant and drops

453 Two ivory necklaces, graduated beads

454 Pair Chinese vases, richly decorated in figure and birds

455 A set of 5 vases, 3 with covers

456 A carved ivory group of figures

457 A ditto, ditto

458 Fur coat with fashionable skunk opossum collar

459 A ditto

SCIENTIFIC INSTRUMENTS, &c.

460 A student's microscope by Crouch, with 2 eyepieces, and objectives, in case

461 A fine case of optician's eye testing lenses, by Pickard & Curry (incomplete)

462 A graphoscope (folding)

463 Sextant, by Schmalcalder, with horizon and $1\frac{3}{4}$ lbs. mercury, in brass bound case with lock and key

464 Surveying level by Adie, in case with lock and key, and tripod for same

465 Surveyor's staff, 3-length, 14ft.

466 Prismatic field glass, 8x central focusing and case

467 Monocular microscope by Smith & Beck, mechanical stage, substage condenser, 4 eyepieces, 3 objectives, and 12 other fittings in mahogany case

468 Special polariscope set for the above microscope

469 Six dozen popular microscope slides, in case

470 Prismatic binocular, new condition, in case

471 Long range taper telescope, in case, 2 eyepieces

472 Three $\frac{3}{4}$ -in. telescope object glass, in brass mount

473 Large prism binocular telescope by Carl Zeiss

474 Claude Lorraine mirror and sketching board by Steward, Strand

475 Corn scales in case, thermometer and compass

476 Single lantern by Newton & Co., 4-in. condenser, complete in case

477 Seventy coloured lantern slides on Japan, and 25 on India

478 One hundred and ten ditto—many hand coloured—Africa

479 Fifty-five ditto, coloured Egypt, and 36 others

480 Eighty ditto, coloured, in box

481 Seventy Continental views by Levi, Paris, and 48 others

482 Large quantity of lantern slides (over $\frac{3}{4}$ hundredweight)

483 Two large diameter cinematograph lenses

484 Three Pathé lantern lenses

485 Two large diameter cinematograph lenses

486 A No. 3 Powell & Lealand microscope, 1 eyepiece, mechanical stage and fine adjustment

487 A Powell & Lealand student's microscope, 1 eyepiece, and sliding bar stage

488 Orthoscopic eyepiece by Zeiss -

489 Micro spectroscope by Zeiss, in case

490 Binocular eyepiece by Zeiss, in case

491 A binocular microscope by Crouch, 2-in. 1-in., and $\frac{1}{4}$ -in. objectives, achromatic condenser, polarizer, parabolic reflector, 2 eyepieces, lieberkuhn, live box, camera lucida, etc., in mahogany case

492 Expensive mechanical microscope stage with double rack and pinion, horizontal motions, and screws for attaching to any plain stage

493 Massive brass dissecting microscope stand with lens holder, stage with large aperture, rack and pinion coarse adjustment, swing mirror, extension tube and swivel motion, on heavy triple foot base

494 Zeiss prismatic binoculars, 8x, in case

495 Zeiss marine binoculars, 6 \times 30

496 Zeiss prismatic binoculars, 6x, in case

497 Goerz field glass

498 Zeiss prismatic binoculars, 6x

499 *Negretti & Zambra binocular microscope*, in glass-fronted mahogany case with various accessories, including 5 objectives, 5 eyepieces, micrometer ditto, camera lucida, substage condenser with iris, spot lens, large and small bull's-eye condensers, 2 live boxes, compressor, selenite stage, polariser, analyser, etc., etc.

500 Swift micro lamp with bull's-eye and other attachments, in case

500A Automatic stamp affixing machine, with numbering device and key

The third portion of the Collection of Microscopes and Apparatus formed by the late Sir Frank Crisp, Bart.

501 A binocular presentation microscope, the Watson Draper, rack coarse adjustment,

graduated patent fine adjustment, graduated inclination, rack adjusting substage with centering screws fitted with a pair of "B" capped eyepieces, 2 micro lamps with metal chimneys, and fitted with bull's-eye condensers attached to base of stand ; the whole in new condition, by Watson & Sons

502 An "A" objective by Zeiss
 503 A "C" ditto
 504 An "E" ditto
 505 A "J" ditto
 506 A student's microscope stand by Zeiss, *60/-*
 507 Microscope rack coarse adjustment, patent fine adjustment, rack adjusting substage with centering screws, rotating graduated mechanical stage fitted with "B" eyepiece by Ross
 508 A 4-in. objective by Ross
 509 A $1\frac{1}{2}$ -in. ditto
 510 A $\frac{1}{2}$ -in. objective by Ross, with graduated correction collar and cone front
 511 A $\frac{1}{5}$ -in. objective by Ross with graduated correction collar, can be used either as an immersion or dry
 512 Five odd stages
 513 Three goniometer stages
 514 Pair of "A" capped eyepieces, 1 with indicator, and a "B," "C," "D" and "F" ditto *18/-*
 515 An "A" eyepiece with adjustable diaphragm, 2 "B" eyepieces, 1 with indicator, and 4 others
 516 Three capped eyepieces with indicators, and 4 others
 517 *Sphere of clear quartz, $2\frac{1}{2}$ -in. in diameter full, mounted on brass adjustable stand*
 518 Four cases of various coloured glass screens for the microscope
 519 Centering substage fitting, swing out under-stage, with iris, camera lucida, and other micro sundries

520 Mahogany bodied projection lantern, 4-in. condenser, by Watson & Sons

521 A projection microscope fitted with drawing prism and rack adjustment, by Watson & Sons ; fits above lantern

522 James' exhibition microscope *38-150/-*

523 Student's microscope by Kellner, fitted *53/-* with eyepiece and objective

524 Portable microscope and a student's ditto, *20/-* with objective and eyepiece

525 Demonstration microscope by Nachet, with extra handle and stand *80/-*

526 Student's microscope by Gundlach, rack coarse adjustment, rotating goniometer stage

527 Portable microscope, rack coarse adjustment, in brass case *80/-* *Count*

528 Koristka's large stage microscope *80/-*

529 Erecting binocular rack coarse adjustment, fitted with a pair of capped eyepieces *6.6/-*

530 Worked sphere with universal movements *85/-* in brass mount, by C. D. Ahrens

531 Two small youths' microscopes, 1 by *6/-* Schirck

532 A $\frac{1}{8}$ -in. micro objective with correction collar, by Powell & Lealand

533 Soiree microscope, with a pair of capped eyepieces, stage condenser and lamp, by R. & J. Beck *6/-*

534 Giant microscope with adjustable stage, *7.10/-* fitted capped eyepiece *X*

535 Revolving polariscope, fitted with a square end prism, $\frac{3}{4}$ -in. by $\frac{3}{4}$ -in. by $1\frac{3}{8}$ -in.

536 An Amica prism on adjustable stand, and another prism on stand *60/-* *Second*

537 A prism with circular faces, 2-in. diameter, on adjustable brass stand

538 A light modifier on stand with ball and socket movements, and an adjustable screen holder and a lens holder with ball and socket movements

539 Polariscope, and 4 nicol prism analysers

540 Bull's-eye stand condenser with ball and socket movements, lens $2\frac{1}{2}$ -in. in diameter
Gas micro lamp, and another

541 An expensively mounted drawing prism by Nachet, on rack adjusting stand

542 A microscope of unusual design, rack coarse adjustment, fitted with eyepiece, objective and stage bull's-eye, by Morrau, Paris

543 Student's microscope, rack coarse adjustment, fitted with eyepiece, by Anderson

544 Two dissecting microscopes

545 An expensively made reading microscope on stand, by Weston, Rostock

546 Projection microscope

547 Universal microscope with tricolour and binocular bodies, by Beck

548 Ten various stages

549 Abbé's hemisphere puzzle plate in brass frame, and a defraction plate in brass mount by Zeiss ; 3 astrosopes, a defraction apparatus by Tisley, and a defraction plate by Zeiss (faulty)

550 A set of 3 swing-out Darker selenites, and a reflecting polariscope

551 Rack centering substage, fitted with achromatic condenser

552 Kellner achromatic eyepiece, another with indicator, high power ditto by Beck, and 3 others

553 Portable binocular microscope with rack adjustment for width of eyes, and rack adjusting substages ; pair of "B" eyepieces, polariscope and analyser substages condenser, spot lens, paraboloid silver side reflector, 5-in., 4-in., 2-in., 1-in. and $\frac{1}{4}$ -in. objectives, with other fittings, in leather case

554 Large projection lens in brass mount

555 Student's microscope with mechanical stage, by Pritchard

556 Small binocular microscope by Nachet

557 Microscope for showing the effects of high pressure, by Ducretet, Paris

559 Petrological microscope with nicol prism polariscope and goniometer eyepiece, fitted with analysing prism 90/-

560 Two youths' microscopes - 20/-

561 Binocular microscope, the Watson Crossley rack coarse adjustment, adjustment for width of eyes, patent fine adjustment graduated, rack substage with centering screws, and a revolving mechanical goniometer substage, fitted with a pair of capped eyepieces £15/-

562 A best quality microscope with rack coarse adjustment, divided fine adjustment, rack rotating goniometer mechanical stage, rotating substage with centering screws, by Ross £9/-

563 Objective by Nobert, and 3 others

564 3 Four microscope objectives

565 Five odd size objectives

566 Twenty small magnifying non-achromatic single powers

567 Demonstration microscope by R. & J. Beck 80/-

568 Trichina microscope compressor, microscope with extra large glass stage

569 Three special magnifiers, 3, 6 and 10, by Reichert

570 Watson's modification of Mackenzie's removable swinging substages, and a mounted mirror

571 Bramhall's illuminator, and 3 paraboloids

572 Gundlach's illuminator and 5 other substages illuminators

573 Ten various substages illuminators

574 Superstage with mirror, mounted illuminator, and 3 others

575 Four vertical illuminators

576 A binocular illuminator, superstage, and 2 silver side reflectors

577 Binocular eyepiece (Tolles), by Ladd ; tubes separated by pins travelling in spiral slots

578 Hot stage in case

579 Spherometer by Dollond

580 Microscope with rack coarse adjustment, by Gaubert, Paris *40/- Count*

581 Portable microscope by Murray & Heath, fitted with eyepiece and objective, and another

582 Demonstration microscope with eyepiece objective and condenser

583 Portable dissecting microscope with powers and apparatus, and another

584 Three dissecting microscopes *15/- ?*

585 Three small dissecting microscopes *30/- Count*

586 Three ditto *20/- Count*

587 A small aquarium microscope, and a dissecting microscope

588 A microscope, rack coarse adjustment, rack substage with centering screws, rotating stage by Tolles ; the working instrument of C. STODDER, U.S.A. *£10/- Count* ~~X X X~~

589 Elaborately constructed microscope, fitted with 3 various powers and universal movements *90/- Count*

590 Koch and Maxwol's patent reflecting microscope lamp, and 2 lamps with bull's-eye stand condensers *25/-*

591 Expensively mounted dissecting lens with ball and socket movements, on stand

592 Three small dissecting lenses on stands

593 Copper oven for cultivation of bacteria, and stand

594 Ultzmann's saccharometer eyepiece, by Reichert

595 Therry's hand spectroscope *42/- Count*

596 Bent body tube and a right angle prism

597 Microscope with eyepiece, by Plossel

598 A presentation microscope, rack coarse adjustment, graduated fine adjustment, rotating centering goniometer stage, rack adjusting substage with centering screws ; the instrument rotates on the base and is graduated, by Bausch & Lomb

599 Ahrens' binocular microscope, mechanical stage, fitted with a pair of eyepieces and objective *7/-*

600 Oculist's microscope by Nachet, and triple objective

601 Student's microscope, rack coarse adjustment, and another

602 Microscope by Plossel, and another by Pritchard

603 Demonstration microscope fitted with eyepiece and condensing lens, and 2 others

604 A Ramsden micrometer eyepiece, fitted to draw tube, and a dissecting lens with 3 powers on stand

605 Four microscope stages

606 Ten various eyepieces

607 Six frog plates

608 Seven odd objectives

609 Two diamond writings, 2 micrometers—100 and 500, and sixteenth chapter of St. John micro lithographed

610 Three electrical stages with platinum points

611 Mechanical finger by Zentmayer, and 2 electrical stages

612 Test plate by Zeiss, and a Maltwood finder, both in brass frames

613 Nine various single nose-pieces

614 Five various safety stages

615 Bottrel's zoophyte trough, two focusing eyepieces, and five eye-shades

616 Jung's compressorium, Kunchel's "Herculae" compressor (Verick), and two others

617 Reflecting camera lucida, Malassez's ditto, and another

618 Camera lucida by Beck, ditto by Nachet, and three others

619 Zeiss camera lucida, a camera lucida by Chevalier, and three others

620 Sorby's spectroscope for binocular microscope, by R. & J. Beck

621 Goniometer eyepiece with one and three cross threads and graduated collar and vernier

622 Nachet's micrometer eyepiece with micrometer

623 Burch's reflecting micrometer, a stage micrometer (millimetres) by R. & J. Beck, and two others

624 Micrometer stage

625 Beck's Krato meter eyepiece, and an eyepiece with an adjustable slit

626 Four micro photographic fittings, and a mounted lantern condenser

627 Nine various eyepieces

628 Dery's twin microscope, with mechanical motions in both directions to the stage forceps, carrier fitted with stage forceps and two eyepieces by R. & J. Beck £10/-
3/-

629 Kuhn's chemical microscope for high pressures, fitted with square-ended Nicol prism and analyser special objective, eyepiece and condenser f7/-
Bath

630 Expensive calliper reading microscope with eyepiece and objective, by Meisner, Berlin

631 Solar microscope of unusual design

632 A student's microscope by Klon & Muller, and another fitted with eyepiece and objective

633 Three student's microscopes, fitted with eyepieces and objectives

634 Microscope, incomplete, and another

635 Two student's microscopes 16/- Coed.

636 Projection microscope by John Browning, with rack adjustment

637 Antique projection microscope with fittings, in case 25/- Coed.

638 Youth's microscope with fittings, in case 18/- Coed.

639 James' exhibition microscope 40/- Coed.

640 Eight exhibition slides, including a fine specimen of the scarce fairy fly 24/- Coed.

641 Twenty opaque and transparent slides

642 A microscope in the form of a seal 20/- Coed.

643 A curious projection microscope, and four various fittings 4/- Coed.

644 A polished mahogany fitted microscope cabinet, containing live box, vial holder, stage forceps, objectives, and other fittings 41/- Coed.

645 Warrington's portable microscope with objective, and other fittings, in case

646 An old projection microscope, and part of another

647 Warrington's portable microscope with eyepiece

648 Matthew's portable microscope with objective eyepiece, and a few fittings, in case

649 An aquarium microscope, and another

650 A projection microscope with rack adjustment, and a spectroscope stand

651 A double-bodied microscope, by Nachet £5 Conn!

652 Abbé's apertometer by Zeiss

653 Curious wooden microscope, and another 40/- "

654 A Foucault prism, and a revolving selenite stage

655 Two mounted nicol prism polariscopes, and 2 ditto analysers

656 Rotating polariscope fitted to spring stage, by Bausch & Lomb, and a large nicol prism polariscope

657 Reflecting polariscope to fit over mirror, nicol prism ditto, and 2 other nicol prisms

658 Two copies of F. A. Nobert's defraction rulings in case—3001 lines in Paris inch, and another mounted

659 Abbé's analysing eyepiece

660 Six odd polariscope fittings

661 A reflecting polariscope, a mounted nicol prism, and 7 fittings for polariscope

662 Three pieces of chilled glass, 3 prisms, a cube of uranium glass, and a $\frac{1}{4}$ wave plate

663 A dichroscope by Hoffman, Paris, with specimens

664 A ditto lot

665 Three substage condensers, 1 by Powell, and 2 by Ross

666 Expensively made microscope with rack adjustment, graduated fine adjustment, by Ross £10 Conn!

667 Binocular magnifier by Beck, on stand

668 Student's microscope with eyepiece and objective, and a small dissecting microscope

669 Expensively made micrometer stage with rack movements and reading by Vernier

670 Two expensive hot stages, and a spirit lamp

671 A triple nosepiece, a substage superstage, and 2 pairs of safety rings

672 Dr. Matthew's calliper eyepiece, "B" eyepiece with 2 indicators, "C" eyepiece with indicator, and 2 others

673 Four microscope stages

674 Stand for dissecting microscope by Beck, and a ditto by Chevalier fitted with a power

675 An expensively made plane table, a circular protractor divided on silver and reading by Vernier, by Negretti & Zambra

676 An expensively made drawing microscope, rack coarse adjustment with scale, horizontal eyepiece and special objective, in mahogany case, by Hartnack

677 A stand with rack adjustment for dissecting microscope, by Powell & Lealand, and another

678 Demonstration microscope with eyepiece, and 2 others

679 A portable microscope by Nchet, in case, with eyepiece and 2 objectives

680 Student's microscope, rack coarse adjustment, fitted with eyepiece, by Bausch & Lomb

681 Dissecting microscope by Chevalier, fitted with Brucke lens

682 Eight various eyepieces

683 Eight odd objectives

684 Fuss's reflecting goniometer microscope, fitted with special square cut nicol prism analyser, divided on silver and reading by Vernier

685 Kaleidoscope in case, stand for dissecting lens with ball and socket movements, another stand, and a small microscope

686 Student's microscope by Siebert with eyepiece and objective, and another with eyepiece

687 Small binocular microscope - 42

688 Two dissecting microscopes, and another by Zeiss, with power

689 Student's microscope, and an antique ditto

690 Expensively made dissecting microscope with rack adjustment, by Klonne & Muller

691 Student's microscope, rack coarse adjustment, with eyepiece, by Powell & Lealand

692 Microscope of unusual form supported by monkey, and 2 others

693 Bacteriological microscope, rack coarse adjustment, by Zentmeyer (glass of stage broken)

694 A biological microscope, Wales form, by Watson

695 Student's microscope by Dancer 321

696 Two dozen microscopic objects, including a fine selenite slide, entire lower jaw of rat showing teeth, etc.

697 Plush-lined microscope case containing vial holder, diaphragms, and other useful sundries 351

698 Two mahogany microscope cases containing a graduated microscope tube, and other sundries

699 Microscope case containing spot lens, small substage with diaphragms, and large lieberkuhn, etc.

700 Ten hand glasses and pocket magnifiers, and other sundries in case

Another property.

701 Beautifully-made exhibition binocular microscope, the actual instrument that gained the 1st Class gold medal Phila-

adelphia Exhibition, rack rotating mechanical goniometer stage divided on silver to $\frac{1}{2}$ degree, rack adjusting and rotating substage divided on silver and reading to 1 degree, graduated fine adjustment on silver, 8 eyepieces, 4 being achromatic ; centering eyepiece, substage condenser, large bull's-eye stand condenser, spot lens, paraboloid, camera lucida, Amici prism, silver side reflector, double nose-piece, 3 live boxes, 4 compressors, Maltwood finder, frog plate, stage bull's-eye, and a number of other accessories in 2 cases ; by Negretti & Zambra ; originally cost £300

857 702

1891

703

Field's differential ratio polariscope, fitted with a large nicol prism $1\frac{1}{4}$ in. by $2\frac{1}{2}$ in., 3 graduated rack rotating selenites, and achromatic substage condenser for the exact application of polarised light ; also the companion analyser, rotating by geared rack and pinion, with printed directions

704

Micro spectroscope, rack adjusting slit variable in two directions, removable companion prism, stage and mirror removable

705

Best quality Ramsden eyepiece, micrometer movements, divided on silver

706

A 4-in. best quality micro objective in case

707

A 3-in. ditto, double combination

708

A 2-in. ditto ditto with lieberkuhn

709

A $1\frac{1}{2}$ -in. ditto

710

A 1-in. ditto

711

A $\frac{1}{2}$ -in. best quality micro objective, graduated correction and lieberkuhn

712

A $\frac{1}{4}$ -in. ditto, ditto

713

A $\frac{1}{6}$ -in. ditto, ditto

714

A $\frac{1}{8}$ -in. ditto, ditto

715

A dense glass spectroscope prism, faces 2in. by $1\frac{1}{2}$ in., and another $1\frac{1}{2}$ in. by $2\frac{3}{8}$ in., for a camera obscura

An analysing eyepiece fitted with adjustable crystal holder, and revolving tourmaline in cap

716 A single air-pump with fittings, etc.

717 A dumpy level, 1 $\frac{1}{2}$ in. object glass, and 2 levels, by Yeates

718 A large photographic lens with arrangements for diffusion of focus, by McLean and Melluish, London ; in case

719 *5.9. Conv.*
Beautifully-made antique 18th century chemical balance, in mahogany Chippendale case, with 2 levels, weights, etc., in drawers (glass cracked)

720 Astronomical telescope, 3in. object glass, eyepiece and sun cap ; no stand

721 Powerful 3-draw telescope and brass stand for same, to screw into tree or window frame

722 Microscope object cabinet, with mahogany glass-fronted door, to hold 1000 slides, flat

723 Antique mahogany-fronted specimen cabinet, of 6 drawers, cut-glass knobs

724 Portable microscope with rotating stage, fitted with 2 capped eyepieces, objective, camera lucida, live-box, and other fittings ; in mahogany case, by Moginie

725 A 3-in. microscope objective by R. & J. Beck

726 A 1 $\frac{1}{2}$ -in. and $\frac{1}{4}$ -in. microscope objectives by Hartnack

727 A 1-in. best quality microscope objective by Powell & Lealand, with lieberkuhn ; in case

728 A $\frac{1}{2}$ -in. microscope objective, with correction collar, by Ross

729 A $\frac{1}{4}$ -in. microscope objective by Powell & Lealand, with correction collar

730 A $\frac{1}{4}$ -in. microscope objective, with graduated correction collar, N.A. .76, and fitted with lieberkuhn, by Powell & Lealand

731 A $\frac{1}{4}$ -in. microscope objective, graduated correction collar in case, by James Smith

732 Portable microscope, eyepiece, a double objective, live box, etc., in case, by Crouch

733 Bull's-eye stand condenser, 2 $\frac{1}{2}$ -in. lens, and camera lucida, by Powell & Lealand

734 Student's microscope in case, with fittings by Ross

735 Bull's-eye stand condenser by Watson, and mineral holder by Beck

736 Graduated draw-tube with capped eyepiece and erector, by Beck ; and a number of other sundries, in fitted mahogany case

737 Antique wooden microscope, and another antique microscope ~~£1.15~~

738 Dissecting microscope by Ross, with rack adjustment in both directions, and 1in. with lieberkuhn, $\frac{1}{2}$ in. with lieberkuhn, $\frac{1}{4}$ in. and $\frac{1}{10}$ in. objectives

739 A set of 50 lantern slides—The Holy Land, in grooved box

740 A set of 50 lantern slides in grooved box—Egypt

741 A set of 50 lantern slides—Views of Venice, Florence, etc.

742 Twenty-five lantern slides, microscope objects, diatoms, etc., with reading ; and 25 others, in lined safety travelling case

743 Beautifully painted set of 33 astronomical slides, some mechanical, with printed lecture, by Carpenter & Westley

744 Beautiful set of 39 slides, of the Kings and Queens of England, in box, all by Carpenter & Westley

745 Lantern slide viewer by Robinson, and a number of fine art slides for same

746 Rectangular concave mirror $8\frac{1}{2}$ in. by $6\frac{1}{2}$ in., in silk-lined morocco case, by Carpenter & Westley

747 A fine set of lenses and half-lenses, concave, convex and cylindrical ; a prism, and a polyhedron, in fitted mahogany case, by Carpenter & Westley

748 A mahogany cabinet containing Iceland spar and other prisms, quartz, and lenses, etc., for light experiments

749 A splendid set of 50 lantern slides, comprising views of Rochester, Exeter, Canterbury, and Worcester Cathedrals ; also Castle Ashby, Tewkesbury Abbey, and continental cities

PHOTOGRAPHIC APPARATUS, &c.

751 A 5 by 4 Adams Yale, with Cooke F/6·5,
22 film sheaths and canvas case

752 A $\frac{1}{4}$ -plate Adams Yale, no lens, changing
box and 12 sheaths

753 A $\frac{1}{2}$ -plate Lancaster field, with a rapid
rectilinear lens, a single lens, 3 double
dark slides and leather case

754 A $\frac{1}{4}$ -plate Adams focusing Ideal, with Ray
rapid rectilinear lens and 12 sheaths

755 Post-card roll film camera, no lens, but
automatic shutter

756 A $\frac{1}{4}$ -plate Eastman Kodak, with single
lens, 3 double dark slides, focusing screen,
and leather case

757 No. 3 "B" Alvista, 9in. by $3\frac{1}{4}$ in., with
rapid rectilinear lens

758 A $\frac{1}{4}$ -plate roll film Eastman with
rapid rectilinear lens

759 A $\frac{1}{4}$ -plate Lizars Challenge reflex, with 3
double dark slides ; no lens

760 A $\frac{1}{4}$ -plate focal plane camera, no lens, 6
double dark slides and leather case

761A No. 4 Panoram Kodak, model "B," with
single lens, leather case

762A A $\frac{1}{4}$ -plate Shew with rapid rectilinear
focusing lens, Thornton-Pickard focal
plane shutter, Adams' 12-plate changing
box and leather case

761 No. 4 bull's-eye Kodak, 5 by 4 box-form
camera, in fine condition ; always in focus,
fine lens

762 No. 5 cartridge Kodak $\frac{1}{2}$ -plate, double
extension, fine rapid rectilinear lens,
automat shutter ; splendid condition,
in leather case

763 A 9 by 12 folding camera, easily adaptable
for $\frac{1}{4}$ -plate, rack focusing, Zeiss double
anastigmat lens F/6·3 (Ica Tessar), fully
speeded shutter, film pack adapter and
velvet-lined leather case

764 No. 3 Brownie box-form Kodak, $\frac{1}{4}$ -plate ;
as new

765 Goerz Dagor lens, 165mm. ($6\frac{1}{2}$ in.), post-card or 5 by 4 size, compound shutter, works at F/6.8 (is marked German marking F/4.5)

766 Premo 5 by 4 folding camera, hand or stand, fine rapid rectilinear lens, Unicum fully-speeded shutter, 3 double dark slides and leather case

767 Goerz folding Tenax, 9 by 12c.m., double extension, rack focusing, Goerz Dagor lens F/6.8, 130mm.. compound shutter, film pack adapter ; fine outfit

768 A 7 by 5 rapid rectilinear lens, and 2 other lenses

769 Fine Beck symmetrical lens, $\frac{1}{2}$ -plate, in fully speeded Unicum shutter

751 770 Antique small bone microscope - 221

771 Three lantern lenses and mount

772 Fine $\frac{1}{4}$ -plate Frena box camera

773 A 1A special folding Kodak, $4\frac{1}{4}$ in. by $2\frac{1}{4}$ in., in beautiful condition, Zeiss Tessar lens F/6.3, compound shuitter ; a magnificent instrument

774 Very powerful astronomical or terrestrial telescope with 3 eyepieces, and brass tripod ; all in wooden case

775 Post-card size roll film camera, double extension, rack focusing, Ross homo-centric lens F/6.3, compound shutter (all speeds to 1/250th), antinous release and leather case

776 Kodak daylight developing tank, $3\frac{1}{2}$ in., for all size spools up to and including post-card size

777 A 3A folding pocket Kodak, post-card size, fine rapid rectilinear lens, speeded shutter, and leather case

778 No. 2 Ensignette de Luxe as new, with fine rapid rectilinear lens, speeded shutter, focusing model in lined leather case

779 Fine pair of Watson's 6x prism binoculars, separate eyepiece focusing, strong leather case ; practically as new

780 Bausch & Lomb 6x prism binoculars, separate eyepiece focusing ; tan leather case

781 Mark VI. prism compass in tan leather case

782 A 3A folding Kodak post-card size, fine R.R. lens, automat fully-speeded shutter, leather case ; fine condition

783 Marion's square bellows $\frac{1}{2}$ -plate stand camera with fine R.R. lens, 3 brass-bound double dark slides, $\frac{1}{4}$ -plate carriers and leather case

784 Fine Crouch microscope with coarse and fine adjustments, 1in. objective, double nosepiece, eyepiece, condenser ; all in mahogany case

785 Fine student's microscope by Swift with adjustment 1in. and $\frac{1}{6}$ in. objectives ; eyepiece and mahogany case

786 Very powerful long-range telescope

787 A pair of 6x prism binoculars by Manhattan Optical Co., Zeiss lenses, central focusing, eyepiece adjustment and leather case ; very fine condition

788 Pair of powerful field glasses in leather case

789 A $\frac{1}{4}$ -plate magazine camera with fine rapid rectilinear lens, speeded shutter, magnifiers, etc.

790 A fine old-fashioned whole-plate studio camera, portrait lens and a double dark slide

791 Very heavy wood tripod for whole-plate camera

792 Thornton-Pickard time and instantaneous shutter for large lenses

793 No. 1 folding pocket Kodak, old model but effective

794 Goerz folding Tenax $\frac{1}{4}$ -plate Manufoc model, double extension, rack focusing, Goerz Dagor lens F/6.8, compound shutter, film pack adapter and leather case

795 A $\frac{1}{4}$ -plate folding camera with good rapid rectilinear lens, no slides

796 Thornton-Pickard $\frac{1}{4}$ -plate Ruby, morocco leather-covered, reflex camera, long extension; special Cooke F/4.5 anastigmat lens, focal plane shutter, 3 double dark slides, film pack adapter and velvet-lined leather case; in perfect and new condition, a magnificent outfit

797 Thornton-Pickard 3-fold best quality ash tripod, with top and straps, as new

798 No. 1 special folding Kodak 3 $\frac{1}{4}$ by 2 $\frac{1}{4}$, as with Bausch & Lomb anastigmat lens F/6.3, Velosto fully-speeded shutter up to 1/300th second; velvet-lined case

799 Ensign folding roll film camera, $\frac{1}{4}$ -plate with Ensign anastigmat lens F/7.7, Ensign sector shutter, all speeds to 1/100, adaptable for plates

800 Cooke $\frac{1}{2}$ -plate (7 $\frac{1}{2}$ in.) Series III. anastigmat lens F/6.5, as new

801 Three folding Kodak spools, 6-12 exposure, cost 27/-

802 Ditto

803 No. 4 cartridge Kodak for 5 by 4 roll films, double extension, fine rapid rectilinear lens, speeded shutter

804 Large oil floating compass by Negretti & Zambra; in leather case, cost £9

805 Prism binoculars, 8-magnification, eyepiece focusing, leather case; a very brilliant pair of glasses

806 Strong mahogany $\frac{1}{2}$ -plate camera by Hare, with fine Ross lens, one double dark slide, magazine plate-holder and leather case

807 Half-plate camera with 6 mahogany double bookform slides

808 Bausch & Lomb prism binoculars, 6-magnification, tan leather case; excellent glasses

809 Six Goerz 9 by 12cm. film packs, perfect

810 Ditto

811 Kershaw prism binoculars 6x, in leather case; the best English glass

812 Fine sextant in case, by Le Roy

813 Vest pocket Kodak, Ross homocentric anastigmat lens F/6·3, speeded shutter, leather case

814 A $\frac{1}{4}$ -plate Klito de Luxe folding camera, double extension, fine anastigmat lens, Ensign sector shutter, 6 slides and leather case

815 A $\frac{1}{4}$ -plate roll film No. 3 folding Brownie ; fine condition

816 Pair of opera glasses in gilt and mother-of-pearl ; very fine

817 Goerz Manufoc $\frac{1}{4}$ -plate folding Tenax, double extension, rack focusing, Goerz Dagor lens anastigmat, F/6·8 compound shutter, 3 slides and film pack adapter ; as new

818 No. 3 autographic folding Kodak, $\frac{1}{4}$ -plate, as new ; Goerz double anastigmat lens F/6·8, Ibso fully-speeded shutter ; very fine lot

819 *Post-card folding Carbine, latest model, Cooke anastigmat lens F/6·3, Velosto shutter, with speeds to 1/300th second*

820 A 2A boxform Brownie, $4\frac{1}{4}$ by $2\frac{1}{2}$, and excellent fixed focus Kodak

821 A 5 by 4 folding hand and stand camera, fine rapid rectilinear lens, adjustable shutter, 3 double dark slides and case

822 Zeiss Unar F/6·3 anastigmat lens in compound shutter, speeds to 1/250th, $5\frac{1}{2}$ in. focus ; as new

823 Vest pocket Kodak, autographic model, in leather case

824 No. 2c Junior autographic folding Kodak, fine rapid rectilinear lens, speeded shutter; very little used

825 Powerful pair of field glasses in leather case

826 Fine pair of Ross prism binoculars, 6x, in strong leather case ; practically as new

827 No. 2 Brownie boxform camera, $3\frac{1}{4}$ by $2\frac{1}{4}$, as new

828 Student's microscope of fine quality and very compact, $\frac{1}{4}$ in. and 1in. objectives, bull's-eye condenser, live box, specimens ; all in mahogany box

829 A $\frac{1}{2}$ -plate stand camera, fine rapid rectilinear lens, 3 bookform mahogany slides, roller blind shutter, limp case

830 Two leather cases for No. 3 folding Kodaks

831 Studio camera with fine portrait lens, in rack focusing mount and slide

832 Five watch pocket Klimax slides

833 Eight $\frac{1}{4}$ -plate single cameo slides

834 Six vest pocket size slides

835 A fine pair of Zeiss 8x prism binoculars in excellent condition

836 A 4-draw telescope, very powerful marine model by Broadhurst Clarkson & Co.; tan leather covered

837 Parcel containing 3 double dark slides, Watkins Bee meter, Nucrometer focusing cloth and film carriers

838 Three leather cases for cameras, Nos. 1 and 1A

839 Six vest pocket slides for vest pocket Tenax, etc.

840 A 13 by 18cm. Favon folding, hand or stand camera (easily adaptable for $\frac{1}{2}$ -plate), double extension rack focusing, reversing back, Zeiss double protar lens F/6.3, 8in. and 14in. foci, compound shutter, 3 double dark slides and velvet-lined solid leather case

841 Fine tan leather case, velvet-lined for camera

842 Holborn Ilex $\frac{1}{4}$ -plate magazine camera for 12 plates, fine rapid rectilinear lens, adjustable shutter

843 A $3\frac{1}{2}$ by $2\frac{1}{2}$ box Frena camera ; fine quality lens

844 Stereoscopic Co.'s twin lens reflex camera, $\frac{1}{4}$ -plate, with fine black band lens F/6 for 12 plates, in strong leather case

845 Special $3\frac{1}{2}$ by $2\frac{1}{2}$ box Frena camera with Steinheil rapid rectilinear lens and magnifiers

846 Strong wooden tripod for $\frac{1}{2}$ -plate camera, with top

847 A 3A folding Kodak, postcard size, fine Kodak anastigmat lens F/6.8, fully speeded shutter, tan leather case ; splendid condition

848 A 9 x 12cm. and $\frac{1}{4}$ -plate folding plate camera, fine rapid rectilinear lens in speeded shutter, with 5 metal slides ; in first-class condition

849 A $3\frac{1}{4}$ by $2\frac{1}{4}$ Premoette camera for film packs ; a remarkable compact pocket camera

850 Small upright model microscope in case, with slides ; useful instrument

851 A $\frac{1}{4}$ -plate magazine camera, 3 sheaths, in fine condition

852 Mark VI. prism compass in tan leather case

853 Shew $\frac{1}{4}$ -plate Xit camera, Ross Goerz lens, 6 double slides, all bound in aluminium ; in leather case

854 A vest pocket Kodak camera with autographic back, in case, and 4 new Goerz-Tenax films for same

855 A $\frac{1}{4}$ -plate Salex reflex camera, F/5.6 Ross homocentric lens, focal plane shutter and 3 double slides ; a fine lot

856 A $\frac{1}{4}$ -plate Adams' Natti camera, Ross homocentric lens, speeded shutter, Premo film pack holder and carrying case

857 A fine Beck deerstalking telescope in sling case

858 Oliver No. 3 typewriter

859 A new Petroliti table lamp

860 A Macaura Pulsocon

861 Tropical and other clothing, various, a bundle

862 No. 3A Kodak developing tank complete, 3 printing frames, and a 12 by 10 washing tank

END OF SALE.

SALE ANNOUNCEMENTS.

TUESDAY, DECEMBER 14th :—

China ; Ivories ; Cloisonné ; Ethnographical Specimens.

TUESDAY, DECEMBER 14th :—

**High-class Oil Paintings and Water-Colours,
by order of Messrs. J. Lawrence & Co.**

**THURSDAY and FRIDAY,
DECEMBER 16th and 17th :—**

**Scientific and Photographic Apparatus ;
Miscellaneous Property.**

TUESDAY, DECEMBER 21st :—

By order of the Trustees of the London Museum.

**100 lots of Antiquities, found in London ;
being duplicates from the London Museum.
Also Oriental Bronzes ; Cloisonné ; Ivories ;
Native Curios ; Weapons, etc.**

**WEDNESDAY, DECEMBER 22nd
(instead of Friday, December 24th).**

**Photographic and Scientific Apparatus ;
Miscellaneous Property.**

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